

The Local Government Board and The Sale of Food and Drugs Act.

The Local Government Board have issued a communication in the form of a circular to sanitary authorities with reference to the packing, sending, and division of samples forwarded under the Act to the Chemical Officers of Inland Revenue at Somerset House. This has been found necessary from the fact that hitherto samples have been sent in exceedingly small quantities, or with defective packing, or after an unnecessarily long interval from the original purchase. Appended to the circular is a report from Dr. Bell, late principal of the Somerset House laboratory, showing the results of his analyses of milk.

Poisoned by a Disinfecting Fluid.

On Monday last the Preston Coroner held an inquest touching the death of Mary Robson. The evidence of Dr. Nichol was to the effect that he was called to deceased on the previous day, and her lips and mouth showed signs of some virulent matter having been taken. There was a strong smell in the room of Jeyes' Fluid, or something of a similar nature. He had come to the conclusion that death had been caused through drinking Jeyes' Fluid. He thought deceased had swallowed 3 oz. or 4 oz. He thought that from 1 oz. to 2 oz. would cause death. The fluid was distributed gratuitously for sanitary purposes by the Preston Corporation, and the deceased might have obtained it in that way.

After further evidence had been called, the jury returned a verdict to the effect that deceased had committed suicide whilst in a state of temporary insanity.

In the course of the proceedings some of the fluid was mixed with water, and handed round to the jury to taste. the Coroner remarking that they could not often stand drinks to the jury.

[We are informed by the Jeyes' Fluids Company that as soon as they heard of this case they despatched a representative to Preston who ascertained conclusively that the fluid used was not theirs but another disinfectant resembling theirs in appearance and smell, but not the same in composition. They say that they know of several instances in which much larger quantities of Jeyes' Fluid than that mentioned above, have been taken without injurious effects, and they are taking steps to have the facts proved.]

Sale of Laudanum.

At Leicester County Police Court, on February 28, a grocer was fined 40s., including costs, for selling laudanum in a bottle which did not bear his name. The prosecution arose out of the disclosure that a young girl had been able to obtain a large quantity of the poison without the slightest difficulty, and then drank the entire dose with the frustrated intention of committing suicide.

Mary Ann Hatfield (24), residing in St. Paul's Road, King Cross, Halifax, went to a chemist's shop in King Cross Road to purchase threepennyworth of laudanum, alleging that she was going to poison her dog. Having his suspicions aroused, the chemist only gave her $1\frac{1}{2}$ drachm of laudanum, the remainder of the mixture being sarsaparilla. The woman appears to have intended the poison for the dog, but she made her own coffee and a mixture for the dog at the same time, and then accidentally drank of the latter preparation. Her husband at once sent for the chemist, who advised him to send for a doctor. In the meantime the husband gave a quantity of warm water, mustard, and salt. This caused her to vomit, and eventually she came round.

Stealing from Chemists.

Beatrice Tryer (14) was charged last week before the Newport (Mon.) Magistrates with stealing a box of gold-beater's skin from the shop of Mr. W. E. Giles, chemist, Commercial Road. Fined 2s. 6d., or two days in the cells.

At Great Marlow Petty Sessions on Thursday last, Joseph Grimmett, of Bisham, 19 years of age, was brought up in custody charged with stealing two $\frac{1}{4}$ -lb. packets of tea on February 27, the property of Mr. Footitt, chemist, of Marlow. Mr. Footitt said the prisoner had been in his employ for eight months. On the day named he found a basket in one of the end of the garden in which were two $\frac{1}{4}$ -lb. packets of tea. He accused the prisoner of having stolen

them in the presence of another employé. Prisoner admitted that he had stolen the tea. Prisoner was further charged with stealing, some time during the past six months, a pipe in case, cigar-case, four cigars, tin of mustard-leaves, roll of plaster, and a menthol cone, the property of Mr. Footitt. These were found at his house. The prisoner pleaded guilty, and elected to have the case settled by the Court. He was fined 1l., or in default fourteen days' imprisonment with hard labour.

At the Whitehaven Petty Sessions, on February 26, Frank Chapman (16) and Mossop Wilson (13) were charged with breaking and entering into the premises of Mr. Walter Herbert Gass, chemist and druggist, Whitehaven, on February 23. Chapman had been Mr. Gass's errand-boy. He saw his master count the money that night, and noticed that he left some there. He first asked another boy to help him. This one refused, and then he induced Wilson to join him. When arrested he confessed. The Bench discharged Wilson, thinking he had been influenced by Chapman; the latter was committed for trial at the next Quarter Sessions.

At Reading Police Court, on Wednesday last, Sarah Looseley, a respectable woman attired as a widow, was charged with stealing a bottle of perfume, and two tablets of soap, value 10s., the property of Mr. John Powell, chemist, St. Mary's Butts, Reading. Prosecutor said on the previous day prisoner came into his shop for some camphor. After she left he missed the articles mentioned. He gave information to the police, and went with an officer to the prisoner's residence, when she admitted the theft. Prisoner asked for a lenient sentence, as it was a sudden temptation. The Bench fined her 40s., or fourteen days' imprisonment.

The Week's Carbolic-acid Poisonings.

The father of Cecilia Edwards, a shoemaker of Hammer-smith intending to give the child, an infant 15 months of age, a dose of castor oil, gave her a dose of carbolic acid and opium from a bottle which was on the same shelf. She died.

Lydia Lees (40), who lived with her sister, got very depressed because they were out of work, took carbolic acid, and died. At the inquest the sister said she too would not mind taking some of the acid to help her out of this miserable world.

Charles Hamilton (24), a painter, of Liverpool, drank a wineglassful of carbolic acid last Thursday, and died in consequence, because he had lost his situation, and "every-one was against him."

A bus conductor named James Harry Channon, lately residing at Newington Batts, having made a mistake in his way-bill on Saturday of last week, was to have called at the office on Monday in order to explain the deficiency in his takings. This preyed upon his mind, and during the absence of his wife on Monday he drank a quantity of carbolic acid. At the inquest a verdict of "Suicide while temporarily insane" was returned.

Disinfectants for Holborn.

At the meeting of the Holborn Board of Works, on Monday, the clerk reported that tenders had been received from the following firms for the supply of disinfectants for the ensuing twelve months:—Messrs. Newton, Chambers & Co.; Messrs. Francis Poole & Co.; Mr. Charles J. Rees; Messrs. Corbyn, Stacey & Co.; The Sanitas Company (Limited). The tenders were referred to the Sanitary Committee.

Disinfectants for St. Luke's.

At the meeting of the St. Luke's Vestry, on Tuesday, the Works Committee reported that they had received the following tenders for the supply of disinfectants for the ensuing twelve months:—Mr. C. Kingsford, Whitepost Lane, Hackney Wick, N.E., commercial liquid carbolic acid, per gallon, 2s.; carbolic powder, per cwt., 5s.; carbolic powder, per lb. packets, at per gross, 9s. Messrs. Adcock, Easton & Co., Charteris-works, Charteris Road, Finsbury Park, N., 1s. 9d., 5s. 9d., 11s. Messrs. Adams, Webster & Co. (Limited), Manor Chemical-works, Hackney, 1s. 8d., 5s., and 7s. Messrs. F. C. Calvert & Co., Manchester, 2s. 6d., 10s., and 16s. Messrs. Forbes, Abbott & Lennard, Ordnance-wharf, Blackwall Lane, East Greenwich, 1s. 9d., 6s. 3d., and 20s. Messrs. George Mayor & Co., Love Lane, Southwark, 1s. 7d., 4s., and 9s. Messrs. W. A. Hope & Sons, Oak Lane Works, Lime-

house, E., 1s. 8d., 5s. 3d., and 20s. Messrs. Penny & Co., 149 Palmerston Buildings, Old Broad Street, E.C., 2s., 6s., and 30s. Fleming's Oil and Chemical Company (Limited), 101 Leadenhall Street, E.C., 1s. 7d., 7s., and 15s. 6d. Messrs. Dussek Bros. & Co., Verney Road, Rotherhithe, 1s. 6d., 4s. 6d., and 8s. 6d. Mr. W. Sharratt, Tower-works, Droylsden, Manchester, 1s. 5½d., 5s. 6d., 24s. Messrs. McDougall Bros., 10 Mark Lane, E.C., 2s., 9s., and 16s. They recommended that the tender of Messrs. Mayor & Co. be accepted. Mr. Peerless moved the adoption of the report of the Committee. Mr. Rumball said the Public Health Committee had great difficulty in getting disinfectants of the proper strength. For a long time the Public Health Committee had a lot of trouble with a firm which had the contract for disinfectants. When they were detected supplying stuff below the standard, they alleged that it was sent in mistake, and asked them to send it back, and they would replace it. During the whole time that Messrs. Calvert & Co. supplied them they gave the greatest satisfaction, and he was afraid that they were adopting "the penny-wise and pound-foolish policy" in accepting the lowest tenders, although he was not prepared to say that the firm recommended would not fulfil the contract. After some discussion the report of the Committee was adopted.

"Business Morality."

Mr. T. H. W. Idris, L.C.C., mineral-water and chemical manufactnrer, delivered an address on this subject before the members of the St. Nicholas Club, Queen Victoria Street, last week. Canon Scott-Holland was in the chair. In the course of his paper, Mr. Idris, making special reference to the chemists' and druggists' business, mentioned the case of a friend of his who had purchased a chemist's business of a not very flourishing description, and, notwithstanding, preferred to deal honestly than to struggle for an early fortune. A person came into the shop and asked if it was true that a pennyworth of so-and-so was as efficacious as the half-a-crown bottle of a certain article? The chemist replied that the pennyworth was equally good. A brother druggist was in the shop, and subsequently exclaimed, "What a fool you were!" "But I told the truth," remarked Mr. Idris's friend. "That he hanged," was the retort, "you have got to get a living." However, added the lecturer, that man succeeded beyond all expectations. In four years he had kept himself and family in good style, and had saved four times what he gave for the business!

Botanical Excursion.

About forty of the students of the Metropolitan College of Pharmacy visited the Kew Gardens last Saturday. Besides botanising, the students indulged in a game of football during the day. After Mr. Will had taken the students through the gardens, they returned to the Rose and Crown Hotel, where the proprietor had provided a good substantial tea. A smoking-concert followed the tea. Mr. W. W. Will occupied the chair. The next excursion will take place on Easter Monday, when a visit will be paid to the Surrey Hills, travelling from Dorking to Guildford over the Ackhurst Downs.

The Government Veterinarians.

Professor G. T. Brown, C.B., having retired from the position of Director of the Veterinary Department, the following appointments have been made in the office of the Board of Agriculture:—Mr. A. C. Cope to be chief veterinary officer, Mr. W. Duguid to be assistant veterinary officer, Major J. T. Tennant to be principal (Diseases of Animals Division). The services of Professor Brown will continue to be at the disposal of the Board in a consultative capacity.

False Teeth not Necessaries.

At the Westminster County Court on Wednesday last, before Judge Lumley Smith, Q.C., Mr. Bromley, a West-end dentist, sought to recover 6l. for the cost of some teeth supplied to Mrs. Tilley, the wife of a saddler at Arundel, Sussex. There was no question as to the order or delivery, but the defendant said he was separated from his wife at the time, and was allowing her 1l. a week for her maintenance. She had no authority, either express or implied, to pledge his credit for false teeth or anything else. The plaintiff's solicitor contended that these teeth were necessary, and therefore Mrs. Tilley would have power to pledge the

defendant's credit. His Honour said if a husband did not provide teeth, surely it could not be alleged that the wife could pledge his credit for them. People did without false teeth for many hundreds of years, and even now a person could never get false teeth from the parish doctor. If a wife went to the parish doctor he would not give her false teeth. There would be judgment for the defendant, with costs.

Edison's Kinetoscope.

Mr. Edison has now perfected his kinetoscope for the continuous photography of objects in motion. By means of this invention he can take a great number of impressions with the aid of a camera in a very limited space of time, thus obtaining a continuous photograph of the entire motion of the object or person selected. The photographs follow each other in such rapid succession that no lapse of time can be detected between the impressions recorded, and the series becomes in effect but one picture. The subject chosen for the first series of photographs by the new process was the well-known strong man Sandow.

Sulphocyanide of Ammonium is not a Poison.

The following letter appears in *Photography* for March 1:—

In view of the definite statement which has been made in the photographic journals that it was illegal for anyone other than a registered chemist to sell sulphocyanide of ammonium, as that chemical was a poison, we have consulted the Pharmaceutical Society on the matter. The following letter received from the Secretary of that Society will at once put the matter at rest, and it will be seen that sulphocyanide of ammonium can be sold freely by any person without risk:—

"I am in receipt of your letter of the 16th inst., and in reply have to inform you that the article to which you refer is not a poison within the meaning of the Pharmacy Act, 1868."

THE BRITANNIA WORKS COMPANY, LIMITED.

Ilford, London, E., February 22, 1894.

Suicide by Sulpho-cyanide of Ammonium.

On Sunday of last week Miss Florence E. Stern, aged 35, living at Bridge-street, Cambridge, with her father, a well-known photographer, informed the latter that she had taken poison, and produced a bottle labelled "poison" which had contained a small quantity of sulpho-cyanide of ammonium. She had probably rinsed out the bottle and drunk the rinsing. He at once gave her an emetic, which had effect, and she revived and went for a walk with him. At tea, however, she became very sick and unwell, and this continuing Mr. Rygate, surgeon, was sent for. Notwithstanding his attention, Miss Stern died on the Monday following. The evidence showed that the deceased had suffered from melancholia and had threatened to destroy herself several times, but had not previously attempted it. She had been closely watched. At the inquest, Mr. Rygate, surgeon, said he found the deceased suffering from the effects of poison. He would say that 5 grs. of the poison named would be a large dose, and would probably cause immediate death. The deceased died from convulsions, and the quantity of poison taken must have been very small. The jury returned a verdict to the effect that deceased died from convulsions, probably caused by taking a quantity of sulpho-cyanide of ammonium whilst of unsound mind.

Football.—South London School of Pharmacy v. Westminster College.

On Saturday last teams representing the above met at Clapham Common. The ball was kicked off at 3.15 P.M., and for the first half-time the game was evenly contested, the score at half-time standing: Westminster College, 4 goals; South London School, 3 goals. In the second half the South Londoners scored 3 goals against their opponents' 2 goals, leaving the score at call of time 6 goals each.

River-pollution by Chemical-manufacturers.

The Mersey and Irwell Joint-Committee are taking energetic action to prevent the pollution of the rivers Mersey and Irwell and their tributaries by chemical and other manufacturers. At the meeting of the Joint-Committee in Manchester, on Monday, it was reported that the progress being made by manufacturers generally was good, and that a large amount of work was now going on for the purifying of their waste waters. Extensions of a month were

in nearly all the cases for the completion of works, but in one case a prosecution was ordered.

A New Sampling-machine.

At the Manchester Society of Chemical Industry meeting, on Friday evening, Mr. T. Clarkson read a paper on a new sampling-machine. In it he pointed out that everyone in the chemical-industry appreciated the importance of sampling, the selection of a small but truly representative portion being regarded as the first step in determining the composition of large quantities of material. He showed how unsatisfactory in its results was the taking of samples by hand, and demonstrated, by the machine he had invented, the accurate way in which samples which could be absolutely relied upon could be taken. The members were greatly interested in the demonstration, which was very successful.

Adulterated Sweet Spirit of Nitre.

At Barnsley Petty Sessions, on Thursday, James Wall, shopkeeper, Darfield, was summoned for selling sweet spirit of nitre not of the nature, substance, and quality demanded. The drug was certified by the public analyst to contain 67 per cent. of added water. Mr. Wall produced the bottle in which the article was kept, and said it was just the same as it came from the chemist. The Bench warned defendant to be more careful in purchasing drugs in the future, and fined him 10s. and costs.

Fertilisers and Feeding-stuffs Act.

The Leicestershire County Council have appointed Dr. Dyer district agricultural analyst under this Act.

Patent-medicine Jingoism.

The following vigorous circular has been issued by the Patent-medicine Vendors' Defence Association, Limited. We sincerely hope they will get funds enough, at all events, to carry the Powell's balsam-case to the Highest Court for a final decision:—

SALE OF PATENT-MEDICINES.

"Why do not the grocers of England get the law defined?"

—Judge Bacon, Feb. 6, 1894,

Bloomsbury County Court, London.

DEAR SIR,—The above question was asked the other day, and the committee of the Patent-medicine Vendors' Defence Association reiterate the same question to all licensed vendors of these medicines, and ask why they do not rally round and help us to secure our rights, and get the law properly defined and settled.

What is wanted is money and co-operation of the subscribers in various towns. Our committee have any amount of energy, but that alone will not win, and we cannot go on fighting this important battle unless those interested fight with us. Our prospects of success are good; we have "common sense," "reason," and important vested interest on our side, and what is there to oppose us? A handful of chemists, represented by the Pharmaceutical Society, whose argument consists of overdrawn constructions and technicalities, which were never intended by the framers of the Pharmacy Act, 1868. *Their sole object is to obtain the monopoly of selling these harmless commodities, and which is now taking them all their time to prove the contrary.* They do not pretend to argue the public will be any better protected than they are now, neither do they care one jot about them at all.

Let it not be supposed, however, that this actively aggressive association of chemists can be safely left to pursue its own ends without being vigilantly watched and cheek-mated. It will very soon find that pharmacy legislation is for the protection of the people, and not for the protection of a trade. The struggle is simply a battle between two classes of traders, and the question to-day is, Are we to let them have all their own way? We say emphatically, No; We have won two battles, and undoubtedly reduced the applications for penalties to a minimum. Therefore, our committee trust this appeal will be responded to without delay.

Membership-subscriptions and smaller donations will be duly acknowledged by the Honorary Secretary.

W. J. LEGGETT,

Drug-stores,

95 Boaler Street, Liverpool.

The sentence we have italicised might usefully serve as an exercise in English analysis for the Preliminary examination.

Charge of Arson.

At the Yorks Assizes, on Tuesday, before Mr. Justice Lawrance, Thomas Campbell, 44, chemist, was charged with

arson, on January 12, at Coatham. The evidence showed that prisoner and his wife were living apart, and Mrs. Campbell employed an ex-police-constable, named Bosomworth, to protect herself and property. The prisoner was alleged, by Bosomworth, to have said he would cause a surprise in Coatham that night. He afterwards went into one of the rooms and set fire to some of his wife's clothes. He subsequently put some more clothes on the fire, and said, "Let them burn." When the fire was put out, the prisoner said he should put in a claim for 20% on the insurance company for the damage that had been done. The prisoner appeared to be intoxicated at the time.

Mr. Scott-Fox, in addressing the jury for the defence, said that if the jury thought the prisoner had made the fire only for the purpose of burning some of his wife's clothes out of spite, he would be entitled to a verdict of not guilty.

This was the verdict.

Fires.

A serious fire occurred, early on Saturday morning, on the premises of Messrs. Inman & Co., New Bridge Street, Newcastle-on-Tyne. The brigade was soon in attendance, and conquered the fire before it had extended far, but considerable damage was done.

A serious fire occurred on Wednesday evening on the premises of Messrs. H. Lockwood & Co., manufacturing chemists and tar-distillers.

Depression in the Chemical Trade.

It is reported that in consequence of the depression in the chemical trade several hundred men have just been discharged from the works of Messrs. Brunner, Mond & Co., and that 200 employes at Messrs. Bowman, Thompson & Co.'s have received notice, through large accumulations of stocks,

Scotch News.

Stealing from Chemists.

At the Oban Police Court last week John Duguid, plasterer, was charged with having on Saturday afternoon stolen from the shop of Mr. Alex. Robertson, chemist, George Street, two cut-glass smelling bottles, a bottle of lavender-water, and three balls of toilet soap. Accused pleaded guilty. The prisoner asked the shop boy for certain medicines, for which he went to the inner shop, and taking advantage of the temporary absence of the assistant appropriated the articles from the counter. The Bailie sent accused to prison for three days.

Personal.

Mr. D. N. Wylie, chemist, College Street, Edinburgh, has been elected a member of the Edinburgh Merchant Company.

Mr. David McLaren, chemist, 42 South Clerk Street, Edinburgh, has been elected a member of the St. Cuthbert's Parochial Board of that city.

Damages Action by Bovril (Limited).

In the Court of Session, Edinburgh, on March 2, before Lord Kincairney, Bovril (Limited), London, claimed from Joe Smicht, horse-dealer and foreign agent, of 93 Waterloo Street, Glasgow, and Greenbank, East Kilbride, 1,000% damages, alleging that the defender, who is a foreign agent in Glasgow, had regularly and systematically, since the beginning of 1892, represented himself as being the agent employed by the Bovril Company to buy old horses, and solicited horse-dealers and others to sell him such horses for the purpose of being manufactured into bovril, and that he had regularly bought horses which he stated were purchased for that purpose. The pursuers characterised these statements as false and calumnious, and they alleged and offered to prove that they were so, and that they had no connection with the defender, but that in reality the horses purchased by the defender were shipped by him to the continent. The defendant did not appear, and a decree for the amount claimed and for expenses was entered by the Court.

French Pharmaceutical News.

(From our Paris Correspondent.)

EAU DE BOTOT.—A somewhat interesting trade-mark question is likely to arise concerning the use of the words "Eau de Botot." For a long time past any pharmacist or manufacturer has considered himself entitled to adopt the name for a dentifrice, of which the ingredients are well known, and it had apparently become public property. The preparation was invented more than a century ago, and it is only now that the company trading under the name of "Botot" claims for itself the exclusive right to the appellation.

PHARMACIEN ANARCHIST.—Poulain, the pharmacy-, or rather, laboratory-assistant, who was indirectly concerned in the assassination of a police-inspector last November, has just been condemned to eight years' hard labour. The crime for which he was convicted was somewhat out of the ordinary. He obtained employment in a pharmacy, rue de Chaillot, for the express purpose of robbing an apartment occupied by a Madame Sano on the first floor of the same house. While this lady was in the country, Poulain, together with several confederates, occupied her abode for three days, and finally left, after removing everything of value.

AN ILL-JUDGED PLEASANTRY.—The man Bulon, who on the night of January 30 attempted to throw a pharmacist, M. Vairet, from a train, between Montargis and Paris, as reported at the time in *THE CHEMIST AND DRUGGIST*, was sentenced last Saturday by the Eighth Correctional Chamber to thirteen months' imprisonment. In the course of his examination, Bulon, who does not appear to have the full use of his faculties, declared that he was slightly intoxicated, and merely meant a little pleasantry. He also added that he thought the occasion a favourable one for experimenting with a new system of opening doors he had invented. Neither the magistrate nor the pharmacist was disposed to take this view of the case.

MUNICIPAL PHARMACY.—The correspondent of *THE CHEMIST AND DRUGGIST* profited by a recent visit to Roubaix to obtain the views of some of the local pharmacists on the attempt of the Municipal Council of that town to infringe their rights by establishing a pharmacy vending medicines at cost price. As a matter of fact the question has created much less stir amongst the profession locally than might have been expected. "It is illegal and they cannot start a municipal pharmacy," was the reiterated remark of a veteran whose *officine* is exactly opposite the Roubaix Town Hall. "The law of Germinal is quite decisive on the point, and he considers the affair is quite terminated. No opposition was organised by the local Pharmaceutical Society, as the *Préfet* quickly vetoed the proposal. The fact is, the gentlemen opposite (pointing to the Town Hall), thought that pharmacy is merely a trade, whereas it is, of course, a liberal profession, with diplomas." In reply to the question as to whether no pharmacist was a member of the Council, and consequently well posted in these points, the answer was, "No, they are working men or publicans (*cabaretiers*);" this was accompanied by a smile which betokened the weakness of the Roubaix electorate. A handsome pharmacy at the corner of the rue de la Gare was next visited. Here the proprietor was equally sanguine as to the utter inutility of the Council's vote. "It is merely part of their Socialist programme," he said, "but they can do absolutely nothing in the present state of the law. The Mayor of Roubaix has been to Paris to consult with the Minister of Public Instruction, but the latter reserved his reply. The Council now talks of starting a co-operative pharmacy for the workers, but it will have to be done by private initiative and not out of the rates. Roubaix is essentially a town of workpeople, and they have complete voting power in the municipal elections." The prospect of a co-operative pharmacy by no means frightened the speaker. The business, he said, was started by his father, in Crimean-war days, and the premises have recently been fitted up in the smartest modern style. This pharmacist's bearing was that of a prosperous and businesslike man, and things in the stronghold of Socialism seemed scarcely so bad as they appeared to be at first sight.

Foreign and Colonial News.

DISPENSING FOR THE POOR IN CONSTANTINOPLE.—The Sultan has ordered a pharmacy to be established near the mosque of Techkiyat Nicban-Tach, Constantinople, where the poor are to be supplied gratuitously with medicaments and with medical advice. He has also ordered the enlargement and renovation of the pauper-hospital in the city.

THE DUTY ON MEDICINAL WINES IN GERMANY.—Conformably to a recent general ordinance of the Ministry of Finance, vermouth and other so-called medicinal wines shall, in so far as they are comprised in No. 25E of the Customs tariff, be subject to the general duty of 24m., even when imported from treaty or most-favoured-nation countries.

BISHOP'S CITRATE OF MAGNESIA IN SPAIN.—Messrs. Alfred Bishop & Sons (Limited), of London, are, through their agent, prosecuting several druggists in Madrid, who, it is alleged, have been putting up and selling an article resembling theirs, the bottles bearing labels and covered with wrappers colourably imitating those which the English firm have registered as their trade-marks in Spain. The cases are now proceeding.

A TERRIBLE JOKE.—A correspondent writes to a Lahore paper that a student of a school in Dera Ismail Khan District, by way of a practical joke, recently gave some poison to six of his school-fellows, four of whom died immediately, while the other two were put under medical treatment. This student confessed to giving poison, and stated that he had no enmity against his school-fellows, but gave the drug to them for fun to make them sick.

OFFICIAL COMMERCIAL TRAVELLERS.—A new experiment in the cultivation of commercial relations abroad is being made by the Victorian Government. They have commissioned Messrs. Rowe and Kelly, both officers in the Victorian Custom-house, to visit Ceylon, British India, Penang, Singapore, the Chinese ports, and Yokohama with samples of products of Victorian industry, supplied for the purpose by Victorian manufacturers. At each stopping-place the samples are to be exhibited publicly, and lectures given concerning them. As the collection includes butter and cheese, wines, eucalyptus oil, extracts of oils, preserved meat, vegetables, and native seeds, sauces, jams, preserved fruits, ales, leather, soap, quinine (*sic!*), flour, concentrated milk, compressed forage, hams, tallow, and biscuits, it requires an almost encyclopædic mind to do the lecturing concerning them all. The trip is to last from six to nine months, and is said to be connected with the new "Village-settlement Scheme," under which the Victorian Government hopes to lighten overgrown Melbourne of its workless population, and settle them upon the uncultivated soil of the outlying districts.

A PHARMACEUTICAL PRESS JUBILEE.—Instead of arriving in its usual claret-coloured garb, the *Journal de Pharmacie* of the Antwerp Pharmaceutical Society reached us last month in a gala cover of green and gold. The occasion was an auspicious one in the life of our contemporary, for it marked the beginning of the fiftieth year of its life. On this occasion the journal consisted exclusively of contributions of Belgian pharmacists, who have responded with much alacrity to the call of the editors to make this number an exclusively national one; enough contributions having been received to fill a double number of the paper, and to leave a stock for future use. Pharmacien Gilon leads off with a review of the history of the journal, which was founded in 1845 by M. Pypers, secretary to the Antwerp Pharmaceutical Society, then the only one in Belgium. From the beginning the journal was a fair success. Its publication stirred the chemists of other Belgian cities into activity for the promotion of common interests, and was the direct cause of the formation of pharmaceutical associations in Brussels, Charleroi, Louvain, Ghent, and elsewhere. Several of these associations now have their own journals, and though there is some rivalry among them it is of such a friendly character that they all have a kindly word for the jubilee of their Nestor. *THE CHEMIST AND DRUGGIST* also sends its congratulations and hearty wishes for the future prosperity of the Antwerp Pharmaceutical Society and their excellent paper.

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

THERE were a number of vacant chairs round the Council table on Wednesday; the President was there, of course, and Mr. Cross occupied the vice-chair as usual, but besides these there was only a baker's dozen of councillors present. The faithful thirteen were Messrs. Abraham, Allen, Atkins, Greenish, Hampson, Hills, Grose, Martin, Martindale, Newsholme, Schacht, Southall, and Young.

ROUTINE BUSINESS.

This consisted of the minutes of the February meeting. The PRESIDENT read a letter from the widow of the late R. H. Davies expressing her appreciation of the sympathy exhibited by the Council in the resolution of condolence with her on the loss of her husband. Eight members, as many associates, seventeen associates in business, and twenty-eight students of the Society were formally elected, and seven persons were restored to their former status in the Society on the payment of the current year's subscription and the nominal fine.

THE FINANCE COMMITTEE

reported on their examination of the accounts for February. The balances notified on the various funds were:—

	£	s.	d.
General Fund Account	1,812	8	5
Benevolent "	289	14	7
Donation "	27	6	5
Orphans' "	117	13	5

On the G.F.A. the month had been begun with a balance of 208*l.* 6*s.* 5*d.*; this was augmented by a sum of 2,020*l.* 8*s.* 5*d.* drawn from the deposit account at the bank and by 593*l.* 13*s.* 2*d.* receipts for February. From the total of 2,894*l.* 8*s.* 3*d.*, 1,081*l.* 19*s.* 8*d.* was paid out, leaving the balance indicated above.

A balance of 125*l.* 8*s.* 1*d.* to the credit of the Benevolent Fund Account had been increased to 376*l.* 14*s.* 7*d.* by the month's receipts, while 87*l.* was spent. The remainder formed the second sum named above.

The Donation Account fell from 136*l.* 11*s.* 5*d.* to 27*l.* odd, owing to the expenditure of 99*l.* 5*s.* in the purchase of 100*l.* worth of Consols, and the Orphan Fund had received during the month accessions amounting to 9*l.* 19*s.* 10*d.*

Commenting upon these figures, Mr. CARTEIGHE reminded his colleagues that the sum drawn from the bank was not all receipts. It consisted of 2,000*l.* transferred from deposit to current account, with 20*l.* odd interest. The committee recommended that the sum of 1,000*l.* should be placed to the credit of the Chairman and executive of the North British Branch to pay for work being and to be done on the new building during the next two months. About 800*l.* of this would be required very shortly, so that the sum was by no means too large. It had been considered most convenient to make a separate account of money used for this purpose. Members would be glad to know that the work was progressing satisfactorily, owing, in no slight measure, to the efforts of the Chairman and his committee, who had formed themselves into a kind of committee of inspection. Difficulties had, of course, been met with, such as that with regard to water, but when the arrangements were completed the house would be perfectly dry and suitable for the storage of apparatus and the like, although the floor would be relatively low. The additions to the Benevolent Fund Account consisted of about 100*l.* in subscriptions and 150*l.* in ground-rents. Subscriptions would be more numerous during March and April, when members paid their subscriptions in the ordinary course. He hoped, however, that their friends the local secretaries would remember that some special efforts would be required. More money was wanted, and he believed they would get it, although he knew that was a more sanguine view than some of his colleagues had. He did not wish to be understood as begging, but thought it would be useful, not only to work to obtain new subscribers, but also to awaken greater interest in the fund among those who did subscribe. Perhaps some of them might see their way to increasing the sums they gave; even 5*s.* a year more would

make an important difference in the aggregate. A contribution to the Benevolent Fund Account of 9*l.* 8*s.* 10*d.* had been received from Mr. Woolley, President of the Manchester Pharmaceutical Association, being the balance from the recent successful chemists' ball in Manchester. (Applause.)

After the formal acquiescence in the restoration of two names to the register of chemists and druggists, the report of the

BENEVOLENT FUND COMMITTEE

was read under the protection of the "flag." When this was lowered Mr. Cross observed that the committee had been able to relieve three out of the four cases who applied for assistance. This relief took the form of two grants of 15*l.*, and one of 10*l.*

Mr. ATKINS, who seconded the adoption of the report and recommendations, commended the President's appeal to Local Secretaries. The best results were obtained, he was sure, by personal appeal. The great majority were simply waiting to be pressed to subscribe. He knew from experience that there were many men who hesitated to subscribe to the Society, and yet would not hesitate to subscribe to the Benevolent Fund, the very catholicity of which appealed to everyone. He further believed that many assistants, when appealed to, felt it an honour to be allowed to support the fund.

Mr. GROSE was of the same way of thinking, but Mr. YOUNG excited a laugh with the remark that in canvassing for subscriptions he met with more courtesy than cash. He had called on a large number of members of the trade, but had succeeded in extracting only a few donations, most of which would probably be continued. He had no experience of people who felt it an honour to subscribe, and he further differed from Mr. Atkins in believing that the great bulk of subscribers to the Benevolent Fund was made up of the members and associates of the Society.

Mr. GROSE rose again to say that he was so far with Mr. Atkins that he found less trouble in inducing people to subscribe to the Benevolent Fund than to the Society.

The PRESIDENT added that these were bad times, but he hoped neither Mr. Young nor other Local Secretaries would throw up the sponge. Mr. Grose, he believed, adopted the very capital plan, also followed by some others, of getting another chemist and druggist or pharmaceutical chemist to go with him.

The VICE-PRESIDENT said he had found the plan very successful.

THE LIBRARY, MUSEUM, SCHOOL, AND HOUSE COMMITTEE.

The report of this section of the executive included the Librarian's and Curator's figures for attendance in the Library and Museum during January. Donations to both departments were notified.

The first item of special interest in the report, however, had reference to a scheme of Mr. Schacht for improving the system of awards for examinal success followed in the Society's school. The scheme had been carefully considered, in conjunction with the staff of the school, and the conclusion was that its adoption was undesirable. The committee was therefore unable to recommend it.

A second subject of deliberation outside the usual routine was the desirability of forming a code of ethics for the trade—an idea brought under notice by a resolution of the Chemists' Assistants' Association. The committee pronounced this suggestion impracticable.

In connection with the Society's house there were also recommendations for the repair of the outside cement-work and paint of the house during the present month and May.

A QUESTION OF EXAMINATION AWARDS.

In his exposition of the bare outline of the committee's work read by the Secretary, the PRESIDENT said their colleague, Mr. Schacht, whose interest in all educational matters was well known, had prepared a scheme for consideration and adoption in the school somewhat on the lines of that followed in the University College, Bristol. This was a plan whereby the students should be classed according to their position in the school examination, and each one who obtained a first or second class was to receive a certificate to that effect. It was suggested that there were

certain disadvantages, from his point of view especially, in the award of a great many medals in one session, and it was sometimes disheartening to the greater number of students that all, or nearly all, the awards fell into the hands of one very successful and hard-working student. The committee considered the question well, but while appreciating the good points of the scheme, and believing that some such plan would eventually be found best, were of opinion that there were serious objections, in matters of detail, to its adoption in the school. There was one observation of very considerable moment, and new to himself, which had come out during the discussion of the matter. This was that amongst a certain number of youngish men there was an objection to being elassed second. Many students would not go into an examination unless they felt quite certain of getting into the first class. It was rather curious that this should be; but he found that among the class of students who entered pharmacy that feeling was shared in other parts of the country.

AN ETHICAL CODE IMPRACTICABLE.

With reference to the second recommendation, the Council would remember that the Chemists' Assistants' Association had had an interesting discussion, and passed certain resolutions with regard to a code of ethics for the trade. The committee had had the subject under consideration three different times, but felt that with the present limited powers which the Society's rights gave it, and the difficulty of doing anything to increase them by any ordinary by-laws, it was impossible to make any recommendation in that direction. The main points urged by the gentlemen who took part in the discussion referred to were such as would command the sympathy of all right-minded men, and it was a good omen for pharmacy that there was a tendency among the younger portion of the trade to take the higher view of their position and dignity. Whether they considered themselves tradesmen or not, it was worth remembering that any form of trade could be raised to the dignity of a profession by rules of conduct and ability. (Hear, hear.) He only hoped it would be possible for the gentlemen who had supported the higher views to maintain the standard they had set before them. It should be borne in mind that there were objections to nearly all codes where the power of earning one's living was interfered with. No doubt it was a very undesirable thing that there should be no power in the Act of Parliament enabling them to strike a man's name off the Register for misconduct, but the subject was not one free from difficulties. Even the Medical Council very often had great difficulty in grappling with questions of the kind. They had to constitute themselves a kind of judicial body, hearing counsel on both sides, and in many cases felt themselves bound in justice or benevolence to re-register the offending member some time after. Misconduct, again, of the kind implied by their friends who had brought the question up would sometimes be such as could be dealt with by the common law, but there were a number of minor offences which were not breaches of any law, but of an ethical code. The codes in force among physicians and at the Bar were held to because on admission to the Bar or Inn, or to the Royal College of Physicians, the member signed an agreement to the effect that he would conform to everything laid down in the code. In other words each person must himself contract to be bound by the regulations. In the medical profession, strictly so called, there was no code of ethics. There was nothing in the Medical Act, or recognised among the medical profession, which corresponded in any degree to that which the Colleges of Physicians enforced among themselves. When they considered that, and bore in mind that the education of the medical man had proceeded by leaps and bounds during the past forty years, they must feel that they (pharmacists) were not very far behind them (the members of the medical profession) at the present moment.

The TREASURER, who seconded the resolution that the report and recommendation should be adopted, characterised Mr. Schacht's scheme as too drastic at present, though the time must arrive when it could be adopted. With respect to the second question, he doubted whether it would be just to deprive a man of his means of livelihood, even for very infamous conduct in business.

MR. SCHACHT EXPLAINS.

Though a little disappointed that his colleagues had not been able to fall in with his suggestions, Mr. Schacht consoled himself with the reflection that it was not the first time his ideas had met such a fate. He felt the less disheartened because the President and Treasurer had hinted that some improvements of the kind he had suggested might be made later. He was not alone in feeling that it was a little unfortunate to find so many of the awards going into the hands of one or two persons. The President had implied that his scheme was an imitation of that adopted by the University College, Bristol. That was not the case; it was rather in accordance with the general progress of things in the universities. The tendency had been, not to give their awards to one or two conspicuous men, but rather to group them in classes. He believed, with others, that it was impossible to make distinctions so definite that one man should be worth 1,000 marks and another 920, save perhaps in pure mathematics. It could not be done in science. Of course, continued Mr. Schacht, showing momentarily a tone of bitterness, if the professors were banded together to keep themselves as they were he supposed he must submit to that ruling, though he would have expected the order to be reversed. That some students should object to being in the second class was a very excellent fact, since the attraction of the first class would induce them to make greater efforts to get into it. One of the professors had told him that the plan he (Mr. Schacht) suggested had been already followed by the lecturers; certificates of class position were given if the students wanted them. Now, if class certificates by the lecturers were asked for and valued, he should think they would be still more esteemed when coming from the school officially. He regarded it as a great blunder to suppose that men would not rather be grouped in the second class than not at all.

The PRESIDENT thought that Mr. Schacht's arguments were applicable to 'Varsity education, where the men were anxious to present themselves for degrees, but in a school like this it was difficult to get men to present themselves for examination at all. He went on to suggest that the adoption of Mr. Schacht's system would have a had effect upon the popularity of the school. There had been, and still was, a charm, a distinction, and a halo about a medal that had to be reckoned with from the point of view of the student.

This question, and that of the possibility of a code of ethics, occupied the attention of the Council for some time without giving rise, however, to any novel aspects of either. Some of the speakers seemed to think that the idea of an ethical code would present serious difficulties in actual competitive life, and the PRESIDENT, in answer to Mr. Atkins, did not think the Society could even go so far as to require their own intending members to sign an undertaking to abide by definite ethical regulations. Mr. HILLS thought the raising of the question a bright spot on a generally gloomy horizon—a sentiment that drew hearty "hear, hears"—while Mr. ALLEN seemed to think that, inasmuch as the medical profession had a code of ethics, it was a pity they could not do something to help forward a similar state of things in Pharmacy. The PRESIDENT pointed out that the code referred to by Mr. Allen was vague and unwritten, and suggested that such points of conduct could be best arranged by local association.—The report was finally adopted *nem. con.*

THE FIFTY-THIRD ANNUAL MEETING

was fixed for May 23, and the preparation of the annual report entrusted as usual to the Library Committee.

Mr. Thomas Hyam was elected local secretary for Lewes, in place of Mr. Saxby, who had retired.

COMING CONGRESSES.

The International Medical Congress, postponed from September last, is to be held from March 29 to April 5 next in Rome, and the Society had received an invitation to send delegates. The President was authorised to appoint a couple of gentlemen to represent the Society.

A similar invitation from the eighth International Congress of Hygiene and Demography, dating from Buda-Pesth, was read. The Congress will be held in Buda-Pesth between September 1 and 9 next. The President was authorised to acknowledge the invitation.

This concluded the public business.

The Winter Session.

CHEMICAL SOCIETY'S MEETING.

THE main business on Thursday, March 1, was the reading of the following paper by Mr. C. T. KINGZETT on

THE AËRIAL OXIDATION OF TERPENES AND ESSENTIAL OILS.

In this communication Mr. Kingzett reviewed his previously published investigations, and gave the results of a further lengthened inquiry concerning the limited oxidation of American, Russian, and French oils of turpentine, as also camphor oil and oil of eucalyptus. All essential oils containing terpenes yield upon oxidation with air (with or without the presence of water) an organic peroxide, which is held in solution in the oxidised oil. This so-called camphoric peroxide, which has not yet been isolated, suffers chemical change by contact with water, and peroxide of hydrogen is always produced therefrom, so that when the process of oxidation takes place in the presence of water, not only is the oil oxidised but peroxide of hydrogen is found present in the aqueous solution accompanied by at least two other compounds, one of which has the composition corresponding to the chemical formula $C_{10}H_{16}O_3$, whilst the other resembles thymol ($C_{10}H_{14}O$) in composition and some of its properties. It has not, however, been obtained in solid form, but only as an oily body. The author is still doubtful whether the body $C_{10}H_{16}O_3$ and the H_2O_2 are produced by one and the same chemical change. Cymene is obtained from the body $C_{10}H_{16}O_3$ by distillation of an aqueous solution mixed with dilute sulphuric acid. The body $C_{10}H_{16}O_3$ has some powers of loose combination, and is somewhat unstable; its aqueous solution, when heated, gives evidence of decomposition, as other substances of indefinite composition have been isolated by the author and analysed. As for the oxidised oils they yield from 40 to 50 per cent. of solid residue when evaporated down at $100^\circ C.$, and the resulting substance upon analysis corresponds in composition with the empirical formula $C_{10}H_{14}O_2$. When this is digested with water a substance passes into solution which may be a hydrate, as its composition approximates fairly closely with the formula $C_{10}H_{16}O_3$. This last-named substance is, however, sweet to the taste, whereas the body of the same composition previously referred to is very bitter, hence the author is not satisfied of their identity.

If instead of evaporating the oxidised oils in open vessels they be distilled at $60^\circ C.$ or $100^\circ C.$, there can be isolated at certain stages of the process (after the unoxidised and unaltered hydrocarbons have passed over) small amounts of two substances, one of which apparently corresponds in composition to *sobrerone*, $C_{10}H_{16}O$, and the other seems to be $C_{10}H_{16}O_2$.

The organic peroxide which is originally contained in the oxidised oils is, however, destroyed by maintaining them for a prolonged period at these temperatures, as is evidenced by the fact that the residual portions give little or no peroxide of hydrogen when treated with water.

Mr. Kingzett believes that in the limited oxidation by air of essential oils the terpene grouping is not broken down, for he has ascertained by special investigation that the acetic acid which sometimes accompanies the other products when the process is conducted in the presence of water is not observed to be present if only pure or refined oils are employed, and he has not met with any product which can be assumed to contain less than 10 atoms of carbon in the molecule.

In connection with the oxidation of American turpentine oil a remarkable product was described, the formation of which was first observed by Woodcock in New York, but which the author has since prepared in England and subjected to repeated analyses. Its composition corresponds in percentage to the formula $C_{22}H_{32}O_3$, and the substance, which is nearly white and amorphous, is insoluble in all liquids that have been tested excepting chloroform and carbon disulphide. Mr. Kingzett does not intend to continue the investigation, but he hopes that it may now be taken up by some other chemists, whom he will be most pleased to supply with any quantities of the chief products of oxidation. He

has been assisted in the investigation by Mr. D. Homfray, B.Sc.

Drs. ARMSTRONG and ALDER WRIGHT made slight contributions to the subject, but there was practically no discussion.

A paper on the "Amides of Sodium, Potassium and Lithium," by Mr. Titcherley, B.Sc., had no particular pharmaceutical interest.

The meeting was moderately attended and was soon over.

SOCIETY OF CHEMICAL INDUSTRY.

LONDON SECTION.

THE London Section of the Society of Chemical Industry had a run of ill-luck at its meeting on Monday last.

Admiral Selwyn, it is true, was able to read his paper *in propria persona*, but the three companion papers had to be dealt with by deputy, for the respective authors were ill.

It seemed, too, as if much of the interest of the members was to spend itself in providing synonyms for the titles of the papers. "The Zymean Metallurgy" opened a wide vista for conjecture. Whence the adjective? Was it contemporary with Cyclopean operations, or was it a "geographical expression," was it descriptive of a process or of a thing?

The brave admiral, with the confidence begotten by twenty-seven years' experience in mining operations, undertook to initiate the members with respect to a process which should revolutionise the metallurgical operations throughout the world.

The chemical questions involved, he acknowledged, were numerous and complicated. These he would leave to his hearers, and simply give them his results as the product of his long experience. Briefly, the scheme is to treat any native mineral ore, after it has been reduced to powder, with strong hot brine, and to this mixture "sulphur dichloride" is added. Immediate decomposition of the chloride of sulphur occurs with production of sulphurous and sulphuric acids, and hydrochloric acid being formed simultaneously, chlorine is set free, and the whole of the metals are brought into a state of solution. The process is described as being continuous once it has been started by the addition of the chloride of sulphur, and it is from this initiatory function that the descriptive title has been deduced through the Greek *zumē*, ferment.

All smelting operations are to be superseded, and if you are fortunate enough to find a mineral containing the forty odd metals, all you have to do is to provide each metal with its appropriate tank and find out the best precipitant; for, said the admiral in suavest tones, "I am not here to tell you how to precipitate the metals."

The author styled the process as "the apotheosis of humid metallurgy," perhaps the general opinion is better described in the words of the member who said the paper was "a staggerer," for certainly the tone of the meeting was unmistakably sceptical.

A paper on "The Commercial Production of Chlorine by the Ammonia-soda Process" was read in abstract by the SECRETARY in the absence of the author, but its value was discounted by the fact that the "process" is so far conjectural only, and though a somewhat elaborate diagram was duly exhibited, it was generally admitted that no possible good could come from discussing theoretical operations that so far had not got outside the sphere of laboratory experiments.

Mr. F. H. LEEDS's "Notes on Lithographic Varnish" were taken as read by the tacit acquiescence of the author, who also was absent; and in the last note, the author, Mr. Webster, found a sponsor in Mr. BERAN, who described "An Automatic Regulator of Liquid Levels." This was really an electric alarm, with the "make and break" of contact brought about by the rise and fall on the water of a float connected with the wires. Though it was originally entitled "an automatic cut-off suitable for a water-bath" it neither cuts off nor regulates the water-supply; it is, as the CHAIRMAN suggested, simply an alarm, and somewhat cumbrous at that.

The attendance was excellent, and the business of the evening was all over by 9.40 P.M.

ARRANGEMENTS FOR THE SESSION.

The committee have made arrangements for the following meetings during the remainder of the present session:—

- April 2.—(1) Mr. J. W. Lovibond, "Colour as a Means of Quantitative Estimation"; (2) Mr. W. O. Young, F.I.O., F.C.S., "The Natural Diminution of the Dissolved Organic Matter in the Water of Rivers"; (3) Mr. H. Louis, A.R.S.M., F.I.C., F.G.S., &c., "Note on an Improved Specific-gravity Bottle."
- 16.—Extra meeting. Mr. H. de Moenchthal, "Gold-extraction Process."
- May 7.—(1) Mr. Claude Vautin, "The Commercial Electrolysis of Fused Salts"; (2) Messrs. W. H. Stanger, Memb.Inst.C.E., and Bertram Blonnt, F.I.C., F.C.S., "Testing of Hydraulic Cements"; (3) Mr. Oscar Guttman, Assoc.M.Inst.C.E., F.I.C., "Manufacture of Smokeless Powder."
- June 4.—(1) Mr. W. G. Macmillan, (a) "Experiments on the Strength of Leather," (b) "Note on the Colour of Brass"; (2) Dr. P. Dvorkovitch, "Distillation of Peat."

CHEMISTS' ASSISTANTS' ASSOCIATION.

At a meeting held on Thursday, February 1, a paper was read, entitled

ŒSYPUM AND LANOLINE.

By Mr. J. H. Heap.

The author said his object was merely to supply what interest there might be in the past history of a preparation which is well known to all of us. He did not profess to contribute anything to the present knowledge of the constitution or properties of wool-fat. Liddell and Scott gave *οἰσύρη* and *οἰσῦπος* as alternative forms; the word is used by Herodotus, Pliny, Dioscorides, and Hippocrates, and by Dioscorides it is stated to be "the grease of sweaty wools." A quotation from Herodotus given by Liddell and Scott is the earliest reference as far as the author knew. It occurs where Herodotus is distinguishing between the nomadic and non-nomadic tribes of Libya. He says:—

Many of the former (whether all, I cannot say) burn the veins on the crown of their children's heads when four years old with uncleaned sheep's wool, and some of them do it on the veins in the temples to prevent them being plagued in their after-lives by a flow of rheum from the head, and for this reason they say they are so very healthy, for the Libyans are, in truth, the most healthy of all men with whom we are acquainted, whether from this cause I am unable to say with certainty; however, they are the most healthy. But if convulsions seize the children when they are burning them they have a remedy discovered; by sprinkling them with the urine of a he-goat they restore them. I repeat what the Libyans themselves say.

In the seventh edition of Liddell and Scott no etymology of the word is given, but in earlier ones it is conjectured that the word may be from *δῆς*. This, of course, only accounts for half of the word. The verb, *δήπω* in Greek means "to make putrid, rotten." The combination of these two words would give us a word meaning "something putrid, rotten, foul, got from the sheep."

Hooper's Medical Dictionary (1848) has a description of *œsypum* as "the oily matter boiled out from the wool of sheep and skimmed from the surface of water, used as an emollient in rigidity of the joints." Motherby's work of similar title, revised by Wallis (1795), says: "*Œsype*, *œsypus*, or *œsypum*, the greasy sordes of wool." The Dictionnaire Universelle gives a description of it very like that given by Dioscorides, and adds that "the Normans call it 'si'; in Berry it is called 'serin,' and elsewhere 'soin,' which last seems to be the early form of suint, a name commonly used now for the substance even in this country." The Cyclopædia by E. Chambers, F.R.S., with supplement and improvements by Dr. Rees, F.R.S. (1787), says simply it is got from the "wool round the throats and between the buttocks of sheep." The best general information I have got from James's Dictionary of Medicine. I give this as the best evidence of the mention of "*œsypated*" wool, if not of *œsypum*, by Hippocrates, and other ancient physicians previous to Dioscorides. This dictionary reads thus, "*Lana succida*, sordid wool, or that which is greasy and impregnated with sweat, is frequently recommended by the Ancients. Thus Hippocrates directs this sort of wool well carded and impregnated with oil and wine to be bound upon Tumours (Lib. de Fracturis). And he mentions it in many other places, and Celsus directs it as a proper application in many cases. The *εἴρια οἰσυνήρη* is the same as the *εἴρια βυραρά*. Dioscorides informs us that of sordid soft wool that about the neck and inside of the thighs is best. Dipped in Vinegar and Oil or Wine it is of service at first in

Wounds, Contusions," &c., &c. "For it imbibes whatever liquor it is immersed in and is emollient by reason of its *œsypum*. It is likewise beneficial in a cephalagia, pains of the stomach, or any other part if it is applied with vinegar and oil of roses." Then follows the passage already quoted, and after that a translation of Dioscorides on *œsypum*. A mention of *œsypum* made by Ovid may be of interest. It shows one character of the drug, and also seems to indicate its common use at that period. In the "*Ars Amatoria*," III., 213, Ovid says:—

*Œsypa quid redolent, quamvis mittatur Athenis
Dentus ab immundo vellere succus ovīs?*

In the lines before he has been remarking on the danger and disagreeableness likely to arise from not keeping the art of the toilet secret, and so he goes on after these lines. He says again in "*Remedia Amoris*," 354:—

*Pyxidas invenies et rerum mille colores;
Et fluere in tepidos œsypa lapsa sinus.*

The next reference in point of antiquity is in Pliny. There seems to be little doubt that he preceded Dioscorides. Pliny in Lib. XXIX., c. 9, of the Natural History takes first remedies from wool, saying he will begin with some remedies that are well known—viz., those from wool and from the eggs of birds. He mentions the religious importance which wool had for the Romans. For instance, the bride touches the doorposts of the bridegroom's house with wool. Then, passing to its medicinal use, he says wet wool is applied for sprains, and used in various ways for improving the breath, falling of the womb, &c. In chapter 10 he goes on to remedies from wool-grease. Translated, the text reads as follows:—

Nay, the very excretions of sheep, the sweat adhering to the wool of the flanks and cavities between the (fore) limbs and the body (which is called *œsypum*), have almost innumerable uses. The preference is given to that got from the sheep in Attica. It is made in many ways, but the most approved is to take the wool freshly cut from these parts, or any dirty sweat already collected, and boil gently on a slow fire, in a copper vessel, cool, collect the floating fat in an earthenware vessel, and repeat the operation with the material already boiled. Both quantities of fat are washed in cold water, strained through linen, and exposed to the sun's heat till they become white and transparent. Then they are put away in a tin box. The test is that it smells of the sweaty grease, and that it does not liquefy when rubbed by the hand with water, but that it becomes white like white-lead.

Then follow therapeutics as per Dioscorides, in which we also read that pills are made from the grease of a certain portion of the body unmixed with any substance, dried and pulverised, and "do a wonderful amount of good when smeared on the teeth even when they are loose, and to the gums if cancerous ulcer is spreading on them." It is to be noticed here that Pliny does not mention mixing the *œsypum* with water beyond that resulting from the washing. There is a footnote in Vielpy's edition of Pliny, giving an extract from Galen's works, which extract also does not mention mixing with water. Another footnote refers us to Q. Selenus on the diseases of the teeth and mouth, who recommends a similar use of the tail of the sheep as Pliny. In Lib. XXIX., c. 36, Pliny recommends *œsypum* for headache. In Lib. XXX., c. 10, he says, "*Œsypum*, mixed with Corsican honey—which, by the way, is thought the most acrid honey of all—removes spots upon the face. Applied with oil of roses in wool it causes scurf on the face to disappear; some add butter to it."

The earliest extract I am able to give from a physician is from Dioscorides or from Galen. I have not seen any real evidence to show which of these two is the earlier. The date of Dioscorides is put down as in the second or first century after Christ—more likely the second. That of Galen is A.D. 130. The description of the preparation and properties of *œsypum* is undoubtedly given best by Dioscorides among early writers. Amongst Galen's voluminous works one has to search a long time for, and be rewarded with very little, information on the ancient wool-fat.

In Lib. XI., under the heading "*Lana Succida*," he has a note, of which the substance may be given thus: Dirty wool, also called sweaty wool, removes "irrigations" from bruises and injuries by means of its *œsypum*. When it is washed, and no longer contains *œsypum*, it is suitable for overflowing

humours. When burnt it has a warm penetrating strength, and is finely divided; it clears off soft moist flesh of ulcers. In the "Lib. de Simpl. Medic. ad Paternianum," which, however, is considered spurious, another description is found:—

First, the method of preparation is described as already given. Then he says, "It is adulterated with fat and soft wax ointment; on handling shows its origin by its character, and if it be rubbed in the hands it is made into the likeness of white-lead."

I have been unable to find any mention of *œsypum* in the works of Oribasius, Paulus Aegineta, Alexander of Tralles. I found a useful note in a work dated 1583. This has an awe-inspiring title. A portion will suffice. It is "Petri Andreæ Matthioli Senensis, Medici Cæsarei et Serenissimi Principis Ferdinandi Archiducis Austriae, commentarii in VI libros Pedacii Dioscoridis Anazarbei de Medica Materia, ab ipso auctore recogniti et locis plus mille aucti," &c. This collects all the information from Dioscorides on wool and *œsypum* under one head and adds the original note: *œsypum* is called in Latin *œsypus*; in Arabic, *senferatab*; in Italian, *esipo*; in Spanish, *isopillo humido*; in French, *gresse de la laine sorge*.

Now we come to the Pharmacopœia. The earliest Pharmacopœia in which I have seen a description of *œsypum* is the Pharmacopœia Bergomensis. A copy of this is in the library of the Pharmaceutical Society. This, after defining the source of *œsypum* much in the same way as Pliny, describes its manufacture in this way: The grease is extracted by macerating with boiling spring-water for eight hours, and expressing when once the water has boiled; this fat from expression is gradually boiled in a tin vessel, stirring for some time with a rough wooden spatula, until it acquires the thickness of honey. Another way is given by washing sweaty wools with hot water till they give up all the fat:—

The water which has been expressed from the washed wools along with all the sweaty matter is for some time beaten with a stick, or even for a length of time poured from one vessel into another wider one from a height and poured back again until it foams much. The foam is allowed to subside or disappear. The fat floating on the water is collected. This is repeated until added water no longer foams and no fat swims upon it. Then all the collected fat is softened in the sun with the hands, and washed with water till it flows away clear, and until the fat becomes pure, and all the dirt being removed it becomes white and does not bite the tongue. Then it is put away in a cold place in an earthenware or glass vessel.

The first London Pharmacopœia was published in 1618, the second in 1632, and the third in 1651. The 1682 Pharmacopœia is the last one containing *œsypum*. The 1651 Pharmacopœia is the earliest one I have seen, and from which I take the following:—

On the sweaty wools, that is—not yet cleansed—which have been shorn from the neck, the flanks, and the angles of the fore-limbs and body of sheep, let boiling water be poured several times. Let them be washed well until they have left all the fat in the water. Afterwards, let the wool be expressed and set aside. Then let the greasy dirty water be poured and repoured from a height from one vessel into another until it becomes foamy. Let the foam settle, and let the fat floating on the water be collected. Next, let the water, as before, be poured backward and forward until it foams, and let the floating fat be removed. Do this until foam no longer appears and no fat collects together on the water. Then wash the collected fat with the serum in pure water by working it with the hand, and remove the dirt mixed with it by changing the water often, until the water flows away pure and the fat applied to the tongue does not bite. Then let it be put in a thick, clean earthenware vessel, in a cold place.

In an English edition of Pomet's "History of Drugs," in which is incorporated Lemery's and Tournefort's work on the same subject, dated (4th edition) 1748, there occurs the following:—

The *œsiphus* is the Sweat of the Sheep condensed upon the Wool, and making it greasy. The People who wash the Wool save it, and put it up in Barrels to send to different Places; most of what we sell is brought from Berry and Beauce, in Normandy, but the demand for it is now grown very small. It ought to be chosen new, of a middling Consistence, for the longer it is kept the more it hardens, and will in Time come to the Consistence of hard Soap; the smell also ought to be tolerable, for there is some so stinking that there is no coming near it. It ought to be of a greyish or Mouse Colour, and as clean as may be. In long keeping it acquires a perfumed Smell, as I have experienced. It is emollient, discutient, and anodyne, being useful against contusions, strains, and weakness of the Joints and Limbs.

In square brackets at the end of the article on "Products from the Sheep" is added:—"The *Æsypus* is now hardly anywhere to be met with, though it has always held the Credit of a useful external Remedy, as, indeed, all Animal Fats may, with very good reason, be supposed more subtle and penetrating, from the share of volatile salt they contain, than those expressed from vegetable substances."

GLASGOW AND WEST OF SCOTLAND PHARMACEUTICAL ASSOCIATION.

At the meeting of this Association, held on March 1, Mr. J. RANKIN, B.Sc., of the Zoological Laboratory, Glasgow University, delivered a lecture, illustrated by the oxy-hydrogen light, on "The Comparative Anatomy of the Respiratory Organs." In the lowest forms of life air is respired through every part of the body. In the water vascular system, of which a good example was the common sponge, by the movement of cilia a constant current of water is brought within reach of the inhalent organs. The sea-cucumber has no respiratory system, but takes in oxygen from the whole surface of the body. It was shown, also, where the differentiation of structure gives rise in the lower forms of life to distinct liver and lungs, the liver being the outgrowth of the alimentary canal. In this way the lecturer traced the development of the respiratory organs up to man.

BRIGHTON JUNIOR ASSOCIATION OF PHARMACY

A MUSICAL and social evening of this Association was held on February 28, Mr. J. R. Gwatkin in the chair. There was a good attendance of members and friends, and an excellent programme was performed.

LIVERPOOL PHARMACEUTICAL STUDENTS' SOCIETY

At a meeting of this Society, held on March 1, Mr. T. H. Wardleworth in the chair, a paper on "Milk-analysis" was read by Mr. R. C. COWLEY, Principal of the Liverpool School of Pharmacy. Mr. Cowley first quoted an extract from THE CHEMIST AND DRUGGIST of June 3 last year, page 746, which, he said, suggested to him the importance of the subject to chemists, and he decided to take it up this year. He felt that every chemist should be in a position to test an article of such common consumption and easy adulteration as milk. The most frequent adulterant was water, and then chalk, starch, and flour; the presence of the solids being very easily detected. Boric and salicylic acid have been looked upon by some as simply preservatives, but recent actions have shown that they must be regarded as adulterants. Several kinds of lactometers had been examined by him, but in every instance the results were unsatisfactory, as the instruments failed to indicate adulteration when the density was increased by added solids held in suspension after the milk had been brought down by water. In the analysis of milk the limit of strength is based on the poorest possible natural milk, which shows:—

Fat	3.00 per cent.
Solids not fat	9.00
Total	12.00

and the amount of water added should always be calculated on the average standard of 9 per cent. solids not fat. The solids not fat are used as a basis for calculation, because they are fairly constant in quantity, while the quantity of fat is variable. The composition of milk was described in detail, and the essayist gave a description of the various processes employed in testing. A modification of Adam's method by Thompson was explained, the fat of the milk being separated by the employment of a Soxhlet's apparatus or by percolation through a test-tube with ether. The ethereal solution of the fat is then slowly evaporated, and the amount of fat is readily estimated. Stokes's process was recommended in preference to the preceding, as it was not so troublesome and gave very definite results.

THE LIVERPOOL CHEMISTS' ASSOCIATION.

THE annual dinner of the association was held at the Adelphi Hotel on Wednesday last, March 7. A large com-

pany assembled under the presidency of Mr. J. J. Smith, including the Lord Mayor of Liverpool (Mr. W. B. Bowring), Dr. Nevins, Professor Carter, H. Percy Bulnois (city engineer), Drs. C. Symes, A. C. Wilson, O'Flaherty, and E. W. Barnes, Messrs. Ed. Evans, junr., George Woolley (President Manchester Pharmaceutical Association), W. P. Evans, Ed. Davies, F.C.S., M. Conroy, F.C.S., T. F. Abraham, J. Bain, J. Hocken, W. Wellings, T. S. Wokes, R. C. Cowley, R. Parkinson. After the usual loyal toast, Dr. SYMES asked the company to drink to the continued prosperity of the Liverpool Chemists' Association, and in the course of his remarks referred to the fact that the Society of Chemical Industry had deprived the society of many valuable papers, which otherwise would have been read before it. This, he thought, called for greater exertions on the part of all the members to make the society worthy of the name it had won in the past. Mr. CONROY, in responding, expressed the pleasure all felt in seeing the society honoured by the presence of the chief magistrate of the city. Liverpool boasted of many scientific societies, but these received no official recognition, and he thought it would be a good innovation if the leading officials of such societies were among those who enjoyed the hospitality of the Town Hall. (Laughter and applause.) The toast of the "City and Trade of Liverpool" was proposed in felicitous terms by the PRESIDENT, and in replying the LORD MAYOR said he felt he was in his right place. He was deeply conscious of the valuable services rendered to the community by the pharmaceutical profession—a vocation which called for men of high education, strict integrity, and devotion to their work. As to the suggestion of Mr. Conroy, all present would be aware that in Liverpool municipal affairs there had been many reforms lately, and he thought the President of the Liverpool Chemists' Association would be one of the first to receive the indication of a further reform in the direction of recognising the standing of the Liverpool scientific societies. He called upon all to exercise their civic patriotism, and with the widely extended borders of Liverpool as the second city of the Empire to make her influence in science and art more largely felt.

Mr. ED. EVANS, junr., in proposing the toast of "Medicine and Pharmacy," said we lived in a very progressive age, and pharmacy shared the prevailing spirit of the day, and it was incumbent upon all the members to do their utmost to make the Association in every sense a medium for meeting the advancing knowledge of the day. In humorous terms he referred to Mr. Woolley's visit to "the suburb of Manchester," and said that gentleman must rejoice in the prosperity of a district of which Manchester now claimed to be the port. Harmony between pharmacy and medicine was essential to the prosperity of both, and he welcomed such occasions as the present as calculated to cement the most cordial relations.

Dr. NEVINS, Professor CARTER, and Mr. T. F. ABRAHAM replied.

Mr. J. BAIN, in a brief and happy speech, proposed "Our Guests and Musical Friends," to which Mr. H. PERCY BULNOIS and Mr. GEORGE WOOLLEY responded, the latter alluding to the ship-canal as a new medium of friendly intercourse between the two cities, and trusted it would be a source of much prosperity to the whole district.

In a speech which was greeted by continued peals of laughter, Mr. PARKINSON proposed "The Secretaries, Messrs. A. S. Buck and J. Smith," who had done so much for the Society.

After these gentlemen had replied, the very enjoyable musical programme provided was completed.

JUVENILE SODA CLERK: "Do you live here, mister?" Customer: "Yep." "Then you'll have to wait until the boss comes back from dinner. I ain't allowed to put up prescriptions 'cept for strangers that's travellin'."

AN OHIO DRUGGIST tells the story:—"Just before closing up, recently, a coloured man entered my place, chattering as he was coming up: 'De parson asked me to come heah and git some wine for de communion service to-morrow.' 'What kind do you want?' asked I. 'Well, really, sar, I ain't particular, but my wife she is powerful fond of gin,' retorted the negro."

WILLS OF DECEASED CHEMISTS.

The will, with one codicil, of Mr. George Baggott Francis, formerly of Stoke Newington Green, and late of Inglesby, The Crescent, Hertford, where he died on December 2, 1893, has been proved at the Principal Probate Registry by Mrs. Sarah Inglesby Francis, the widow, Mr. G. Bult Francis, of 38 Southwark Street, wholesale druggist, the son, and Mr. W. C. Jackson, of 58 Coleman Street, accountant, the executors. The gross value of the personal estate and effects amounted to 40,301*l.* 3*s.* 10*d.*, and the net value chargeable for probate-duty to 35,079*l.* 6*s.* 5*d.*

Mr. J. M. Coates, formerly a pharmaceutical chemist at Newcastle-on-Tyne, but who died, aged 73 years, at Branscombe, Woodstock Road, Bristol, has left gross personal estate and effects to the value of 616*l.* 18*s.* and no more; the net amount being 581*l.* 3*s.* Probate of the will has been granted at the Principal Registry in London to Mrs. Elizabeth Coates, the widow and sole executrix.

Mr. John Curfew, chemist and druggist, Flowery Field, Hyde, Cheshire, President of the Liberal Club and a churchwarden, who died on February 11, 1893, has left gross personalty amounting to 554*l.* 7*s.* 9*d.*, the net value available for probate-duty being 439*l.* 9*s.* 4*d.* Probate of testator's will has been granted at the District Registry to his widow and sole executrix, Mrs. Hester Curfew, of 71 Newton Street, Hyde.

Mr. Francis Ison, late of Melbourne, Derbyshire, chemist and druggist, having died intestate on July 29, 1892, letters of administration to his estate have been granted at Derby Probate Registry to his widow, Mrs. C. H. Ison, of Ashby-de-Zouch, her co-sureties being Mr. Charles Matthews, chemist and druggist, of Ashby-de-la-Zouch, and Mr. Edward Ison, of the same place, metal trades valuer. The value of the personal estate amounted to 663*l.* 5*s.*

The will of Mr. Rees Penry Napoleon Price, generally known as Napoleon Price, formerly of 1 Ravenscroft Park, High Barnet, and 27 Old Bond Street, perfumer, who died on March 1, 1892, at 8 Cumming Street, Pentonville, has been proved at the Principal Registry by Mrs. Marguerite Price, the widow and sole executrix of the testator, by whom the gross value of the personal estate was sworn at 1,503*l.* 17*s.* 7*d.*, the net value for probate duty being 692*l.* 13*s.* 4*d.*

The will of the late Mr. Thomas Scawin, formerly a chemist and druggist of the city of Durham, has been proved at the Principal Probate Registry in London, by Mrs. Jane Tomlinson (wife of Mr. Thomas James Tomlinson), daughter of the deceased, Mr. Jens Christian Nelsen, merchant of Hartlepool, Mr. Edward Jephson, surgeon of Durham, and Mr. Charles Caldcleugh, ironmonger, of Durham, the executors named in the will. The value of the personal estate and effects amounted to 6,036*l.* 14*s.* 1*d.*

The will, dated January 1, 1891, of the late Mr. Joseph Dulley, of Wellingborough, who was at one time in business in Wolverhampton, who died on October 12, 1893, has been proved at Peterborough Probate Registry by Mr. E. H. Dulley, the son and sole executor. The gross value of the personal estate amounts to 749*l.* 11*s.*, and the net value to 594*l.* 7*s.* 11*d.* The testator bequeaths to his housekeeper, Ann Thompson, 100*l.* and sufficient of his household effects to comfortably furnish a cottage. Subject to further legacies of 10*l.* and 20*l.* respectively to two friends, the testator leaves the whole of his property to his said son.

The will, dated December 6, 1880, of Mr. Thomas Robinson, chemist and druggist, of Darlington, who died on March 25, 1893, aged 83 years, has been proved by the acting executor, Mr. Thos. Robinson, a son of the deceased, power being reserved to Messrs. James and Arthur Henry Robinson, the other sons and executors, to prove hereafter. The value of the personalty amounted to 23*l.* 17*s.* 6*d.* The testator bequeathed 50*l.* to his daughter, Sarah Ann Clarkson, and 200*l.* to his daughter Eleanor Margaret. He devises his freehold property at Heighinton for the benefit of his widow, with remainder to his son Thomas, and with remainder over to his other sons. The residue of his estate testator leaves to his son Thomas.

Legal Reports.

THE SALE OF POWELL'S BALSAM BY UNREGISTERED DEALERS.

HIS Honour Judge Kenelm Digby gave judgment, at the Derby County Court, on Tuesday in the case brought by the Pharmaceutical Society against Mr. Armson, a shopkeeper, of Melbourne, the action being one in which the Society sought to recover the penalty of 5% from the defendant, for an alleged infringement of the Pharmacy Act, by selling a compound containing morphine, he not being a chemist or druggist. The case was heard on February 13, and was reported in THE CHEMIST AND DRUGGIST of February 17. After hearing Mr. Grey for the Pharmaceutical Society, and Mr. Bonsey for the defence, the Judge reserved judgment. He said: This is an action for a penalty, alleged to have been incurred by the defendant for keeping open his shop for the retailing, dispensing, or compounding of poisons—to wit, "morphine" (morphine being a preparation of opium), or a preparation of morphine, being poison within the meaning of the Pharmacy Act, 1868, contained in, and forming part of the ingredients in a compound called Powell's Balsam of Aniseed, contrary to the provisions of the statute. It was proved that the defendant, who was a grocer at Melbourne, and not a registered chemist, did, on October 1, 1892, sell a bottle of the compound mentioned in the particulars, and the contest at the trial was whether this compound was a "poison" within the meaning of the Act. The bottle sold contained nearly an ounce of liquid, and a label was affixed, on which was printed "Directions for use," prescribing as the proper dose for an adult a teaspoonful, for a child of four years 16 drops, eight years 20 drops, and twelve years 40 drops. Upon analysis, the contents of the bottle were found to consist, amongst other ingredients, of one-tenth of a grain of morphine. Morphine is the chief medicinal principle of opium, and is in its pure state a dangerous poison. It was not disputed that morphine was a poison within the meaning of the Pharmacy Act, 1868. The preamble of the Pharmacy Act recites, as the object of the Act, that it is expedient for the safety of the public that persons keeping open shop for the retailing, dispensing, or compounding of poisons should possess a competent knowledge of their business. The scheme of the Act is to prohibit persons, whose knowledge is not subject to the test therein provided, from dealing in poisons at all, and even registered chemists are placed under certain obligations with regard to the sale of poisons. The 1st section forbids every person not duly qualified to sell or keep open shop for retailing, dispensing, or compounding poisons. There is no definition of the word "poison" in the Act, but the second section provides that the several articles named or prescribed in schedule A shall be deemed to be poisons within the meaning of the Act. The schedule contains amongst the list of poisons "opium and its preparations." The section also provides a mode by which the Council of the Pharmaceutical Society, with the approval of the Privy Council, may from time to time add to the list. The fifteenth section imposes the penalty of 5% for every offence. Following so far as is rational in this case the language of the first section in describing the offence, the plaintiffs contended in the first place that the penalty imposed by the Pharmacy Act, 1868, had been incurred by the defendant on the ground that it was proved that the compound sold contained an appreciable quantity of a scheduled poison, and that this fact taken alone was enough to bring the thing sold within the description of a scheduled poison as being opium or morphine, or a preparation of opium or of morphine. The plaintiffs, however, did not rest their case there, but in the second place gave evidence of the possible or probable injurious effects which might be caused to children and even to adults by the morphine contained in the compound; and they contended that, even if the mere presence of a small quantity of morphine in the compound was not enough to make the sale of the compound an offence within the statute, its deleterious character was sufficiently established to give the whole compound the character of a "poison" within the meaning of the statute. The first question, then, is whether the statute is infringed by the

mere fact that the compound sold contained an appreciable quantity of a scheduled poison. Before the case of the Pharmaceutical Society v. Piper (1893, 1 Q.B., 686) it was contended in opposition to a claim for a penalty under this Act that the prohibition extended only to the sale of the poisons mentioned in the schedule (with the additions made from time to time as above mentioned), and consequently that unless the thing sold came under the description of one of these poisons no penalty would be incurred however dangerous or even fatal the thing sold might be; and with regard to the words "opium and its preparations," it was urged that the mere fact that a compound contained opium was not enough to bring it within the description of the schedule unless the whole compound could properly be so styled; that if it had been the intention of the legislature to prohibit the sale of a compound which contained opium as one of its ingredients, it would have been easy to have added words to this effect; and that no such provision could be implied from the language of the Act. The judges, however, who decided the case above referred to, while admitting the force of these arguments, held that the Act must receive a wider interpretation, and that it prohibited the sale of a compound which contained a scheduled poison, at any rate if that compound contained a sufficient quantity of a scheduled poison to kill an adult if the whole were taken at once. The compound in question in this case was "chlorodyne," which, as stated in the judgment of Mr. Justice Collins (at page 69A), could not be described either as opium or a preparation of opium, but yet was held to be a poison within the meaning of the Act. A careful examination of the judgment shows, I think, that in Mr. Justice Lawrence's opinion the mere fact that the compound contained a scheduled poison was enough. Mr. Justice Collins, on the other hand, appears not to have based his judgment upon this point alone. He carefully leaves open the question whether the statute would apply to the case of a compound containing an infinitesimally small quantity of a scheduled poison. He confined his judgment to the particular case of "chlorodyne," which was "in its entirety a poisonous thing—that is, that a small quantity might kill the person taking it." It appears to me, therefore, that this case does not decide in the plaintiff's favour the proposition for which they contend, that it is sufficient to show that the compound contained as an ingredient a scheduled poison, irrespective of the character of the composition as a whole. On the other hand, it precludes the defendant from successfully contending, at any rate in this court, that a compound which as a whole does not fall within any of the descriptions in the schedule is therefore not within the Act, if it is shown to contain a scheduled poison, and to be "in its entirety a poisonous thing." This view of the effect of the decision in the Pharmaceutical Society v. Piper is, I think, confirmed by the later case of the Pharmaceutical Society v. Delves (1894, 1 Q.B. 71). In that case the compound called "Licoricine" was found to contain a small quantity of morphine. The analyst did not take the quantity, but said that it might be that the quantity was one-fiftieth of a grain per ounce. The County Court Judge held that the evidence as to quantity did not justify him in holding the compound to be a poison. This judgment was upheld in the Divisional Court. The judgment proceeded on the ground that, although it was found that the medicine contained a small quantity of morphine, yet in the absence of evidence as to quantity, the Judge was right in holding that a penalty had not been incurred. This case appears to decide the point which was left open in Piper's case, that the mere fact that the compound contains a scheduled poison is not by itself enough to make it a poison within the meaning of the Act. The result, therefore, of the authorities seems to be that the question which the court has to decide is not simply whether the compound contains a scheduled poison, but whether it contains a scheduled poison in sufficient quantity to make the thing sold a poison within the Act. This brings me to the consideration of the second point contended for by the plaintiffs, and really makes the case turn on a question of fact. Having regard to the importance of the case and to the probability of an appeal, it is right that I should state as clearly as I can the matters which, in my opinion, ought to be taken into consideration in determining the question of fact. In Piper's case, taking Mr. Justice Collins's judgment as indicating the true *ratio decidendi*, it was held that the

chlorodyne was a poison within the meaning of the Act because it contained a scheduled poison, and a small quantity of the compound might kill an adult. Mr. Justice Collins says at page 696: "The question whether or not there is more or less of a scheduled poison in the compound is not one which has any logical bearing on the question until we arrive at the principle, 'De minimis non curat lex.'" But it remains an open question at what point that principle is reached. It was not reached in Piper's case, because it was held upon the facts that the compound might be fatal to an adult. It was arrived at in Delve's case, because there was no evidence as to the quantity or effects of the poison contained in the compound. In the present case there is evidence as to the quantity of the scheduled poison, and there is also evidence as to its effects—probable and possible—upon adults, children, and infants. It seems that, adopting the language of Mr. Justice Collins, the question which I have to ask myself is, "Is this thing sold in its entirety a poisonous thing?" The word "poison," according to Johnson's dictionary, means that which destroys or injures life by a small quantity and by means not obvious to the senses. In Piper's case it was held that the compound was a poison, because the whole, if taken at once, might be fatal to an adult human being. If the type of life to which the compound must be fatal or dangerous, in order to have the character of a poison, be that of an adult, I should hesitate upon the evidence in the present case to find that the compound could properly be described as a poison. It was said, indeed, that it might be fatal to an adult suffering from certain diseases, but except under these special conditions I do not think that the evidence established that the contents of the bottle if taken at once would ordinarily be fatal, or even injurious to adult life. In the case of children, however, it was stated in the evidence given on behalf of the plaintiff that if the whole contents of the bottle were taken at once by a child in ordinary health it would certainly be injurious, and might be fatal, and to an infant very probably would be fatal. This evidence was not contradicted or seriously impugned by the witnesses called for the defence, and in my opinion I ought to accept it as true. That the medicine is intended for children as well as adults is apparent from the "directions for use" affixed to the bottle, and it seems to me that a compound which might have the effect stated upon the life of a child may properly be described as a poisonous thing, although it may be comparatively innocuous to an adult in ordinary health. At any rate, it appears to me impossible, if I apply, as I am bound to do, the rule of the decision in Piper's case, to say that the defendant's act in selling the bottle containing a scheduled poison is protected by the principle, "De minimis non curat lex." I am, therefore, of opinion that the selling of the bottle in question was an offence within the Act, and that the plaintiffs are entitled to recover the penalty of 5*l*. There will be leave to appeal, and if notice of appeal be given within fourteen days there will be a stay of execution pending appeal.

APPEAL AGAINST A PHARMACY ACT JUDGMENT.

At the Justiciary Appeal Court, on March 5, the Lord Justice Clerk, and Lords Rutherford Clark and M'Laren on the Bench, William Tomlinson, 133 West Scotland Street, Glasgow, appealed against a conviction obtained against him before Sheriff Birnie, Glasgow, in regard to an alleged breach of the Pharmacy Acts. The charge was brought by Richard Bremridge, registrar, under the Pharmacy Acts, and he was charged with having on July 28, last he not being a duly registered chemist and druggist, and within the premises 133 West Scotland Street, Glasgow, then occupied by Dr. Hugh Kelly, contrary to the first and fifteenth sections of the Pharmacy Act, 1868, sold a poison within the meaning of the Act. A similar offence, said to have been committed on the following day, was also libelled against Tomlinson. It was proved that on the two occasions libelled Dr. Kelly was not present when the poisons were sold, and the business was being conducted in his absence by the appellant. Sheriff Birnie convicted the appellant of both offences and imposed a modified penalty of 1*l*. 1*s*. for each offence, with 2*l*. 2*s*. expenses. The questions of law for the Court of Appeal were whether in the shop of a duly qualified and registered medical practitioner his assistant, who is not a duly qualified

and registered medical practitioner nor a registered chemist, contravened the first and fifteenth sections of the Pharmacy Act of 1868, if in the absence of the medical practitioner he sold any of the poisons included in the schedule annexed to the Act; and whether, in the event of the question being answered in the affirmative, the employer or his assistant was liable in the penalty.

The Court, after hearing counsel, intimated that, looking to the importance of the question raised, it should be debated before a fuller Bench; and the case was continued with that object.

Mr. Guthrie, who appeared for the appellant, said this was a question arising under the Pharmacy Acts, 1868 and 1869. Dr. Kelly was a registered druggist, and was the only person who could be gone against.

The Lord Justice Clerk: Do you mean that the offender is the master?

Mr. Guthrie: Yes; the master could have done what the assistant did, and if he had done it there would have been no offence at all.

Lord Rutherford Clark: The assistant does, in the absence of the master, what the master himself might do.

Mr. Guthrie: That is so. He explained that the position before the passing of the Act of 1868 was that there was no restriction against anybody opening a drug-store, except that they were not to take certain titles; but the Act of 1868 required that any person who kept open shop should have a certain qualification, and that all persons not already engaged in such business, and before entering it, should be duly examined as to their practical knowledge. The State wanted to bring to an end the abuse that anyone might open a drug-shop, and carry on the drug-business although he had no qualification whatever.

Lord M'Laren said the first question at law did not seem very well adapted for raising the question at issue. He should have thought the question was whether the conviction was proper if the fact was that the contract of sale was the contract of the shopkeeper, the defendant merely acting as his assistant. That was not raised in the first question at all.

Mr. Guthrie said the question was whether it was lawful for an assistant to sell.

Lord Rutherford Clark: For the assistant to sell in the absence of the duly-qualified practitioner.

Lord M'Laren: I should have thought there was only one answer to that—in the negative.

Lord Rutherford Clark said the whole question was whether the contract of sale was made by the assistant or by the master.

Mr. Guthrie said he maintained that the proper meaning of the statute was that the seller was the man on whose behalf the contract was made.

Lord Rutherford Clark: And that the regular practitioner may in his absence, sell by his assistant who has not the necessary qualification for keeping open shop.

Mr. Guthrie: That is so. All parties, he said, were interested in having a decision on this question. There had been no decision in Scotland on this matter. There was a decision in England which was against him, and he proposed to ask their Lordships to look at the grounds of that decision by two Judges of the Queen's Bench Division. It was a very important matter, for this reason—that they had in Glasgow and throughout the country a large number of doctors who had druggists' shops, who were either out visiting a great part of the day, or in their consulting-room behind the shop-seeing patients.

Lord M'Laren: I thought a medical practitioner was not allowed to sell drugs.

Mr. Guthrie: In Glasgow the majority of druggists are qualified medical practitioners.

Lord M'Laren asked how an apprentice was to learn his business if the first time he mixed a prescription he contravened the Act?

Mr. Guthrie said that was his point. The person who was mentioned in the preamble was the person possessing a competent practical knowledge of the business.

Lord Rutherford Clark said he could not see how the apprentice was to learn to compound drugs.

Lord M'Laren: He might do it with the right man looking over his shoulder.

Mr. Guthrie said that as a matter of form in England a

qualified assistant was there to take the parcel and hand it over the counter. (Laughter.)

The Lord Justice Clerk said that seemed a very dangerous thing. The unqualified man might put in anything he liked, and he was not responsible.

Mr. Guthrie said his contention was that the trader, who was a qualified person, was responsible, and that was a sufficient guarantee. He, as a qualified person, would be able to know whether his assistant was qualified to make up the drugs and sell them.

Lord M'Laren: Has it been held necessary that every assistant selling spirit must have a certificate?

Mr. Guthrie: No.

Lord M'Laren: Is there really any difference between the cases?

Mr. Guthrie said he thought the analogy was in his favour. The decision in England had ignored the view that this was the master's act and not the assistant's. That judgment was founded on the words in section 1 to 15 and a clause in section 17. The expression was, "It shall be unlawful to sell or keep open shop," but he submitted on the facts here that this man did not sell.

The Lord Justice Clerk: He had no conceivable right to the money.

Lord Rutherford Clark: He did not make the contract of sale, but he did not the less sell. He sold just as my agent sells, although not for himself.

Mr. Guthrie said, if the preamble was intended to stop all preparing and dispensing of drugs, it might have been said the word "sell" was to be read in that sense. But the object of the statute was to prevent the setting-up of shops.

Lord Rutherford Clark: That is a legitimate argument.

Lord M'Laren asked if the word "sell" was not associated with keeping open shop.

Mr. Guthrie said it was. In England they seemed to have thought—whether on some English rule or not he did not know—that these were necessarily different people, not that the word "sell" might include the assistant. He contended that the sections assumed that they might have a sale by a person who could not be a qualified chemist or druggist. There was a separate point, which arose from the fact that Dr. Kelly was a duly qualified and registered medical practitioner. He held that the Act of 1869 exempted duly qualified and registered practitioners from the provisions of the Act of 1868 with regard to the sale of poisons, and put them in the same position as apothecaries in England.

Mr. T. B. Morison was about to argue the case on behalf of the respondent, when

The Lord Justice Clerk stated that they had come to the conclusion that as this was a very important case they would remit it to a fuller Bench of judges. The case was then adjourned.

Counsel for appellant—Mr. Guthrie. Agents—Simpson & Marwick, W.S.

Counsel for respondent—Mr. Salvesen and Mr. T. B. Morison. Agent—P. Morison, S.S.C.

KEEPING OPEN SHOP.

At the Exeter County Court, on Tuesday, the Pharmaceutical Society brought an action against a watchmaker, named Hornsey, of Cowick Street, St. Thomas, for keeping an open shop for selling poisons, he not being registered as a chemist. Mr. T. R. Grey appeared for the Society, and Mr. Dunn for the defendant.

The case for the plaintiffs was that the defendant, who was a watchmaker, was a maker and vendor of a certain substance called "Hornsey's Devonshire Specific," which, he said, was a cure for asthma, bronchitis, and other things, and was good for persons bitten by animals affected with rabies. On the bottle there was no poison-label, and no directions as to the amount to be used. Two bottles were purchased at defendant's shop, and were found to contain a large quantity of corrosive sublimate. In one—an 8-oz. bottle—there were at least 50 grains of corrosive sublimate, and in the other 43 grains. A fatal dose of that poison was 3 grains, and defendant did not state on the bottle whether it was to be taken internally or applied externally. The defendant was not a registered chemist, and had not passed any ex-

aminations with regard to the poisons within the meaning of the Act.

Sergeant Crook deposed to purchasing two bottles at defendant's shop, one on December 23 and the other on January 5, but stated in cross-examination that there were no bottles in the window.

Mr. H. Moon, clerk in the office of the Registrar of the Society, proved receiving the bottle from the last witness, and Mr. E. J. Eastes, F.I.C., gave the result of his analysis.

Mr. Dunn, in defence, submitted that the claim was for an offence which the defendant had not committed. The plaintiffs did not claim for selling, but for keeping an open shop. He contended that it had not been proved that the defendant kept an open shop for retailing or dispensing a compound of poison.

The defendant was called, and said the lotion was an old family "relic," but no complaint had been made to him that he was doing wrong. He did not keep an open shop for the purpose of selling it, but for watch and clock cleaning, and he had not publicly advertised that he sold the lotion. He had never refused to give a bottle to anyone who could not afford to pay for it, but lately he had taken money for it.

Mr. Grey submitted that by reason of defendant selling two bottles to Sergeant Crook, he kept an open shop for retailing the lotion, whether he advertised it for sale or not.

His Honour said he agreed that it was a very dangerous thing that anyone should be allowed to sell a lotion containing such a deadly poison as corrosive sublimate, but this was an action for a penalty, and he must see that defendant was brought strictly within the statute. He thought it was very doubtful whether defendant did keep an open shop for the purpose, for the public were not invited to buy by an advertisement or otherwise, and what lotion defendant had on the premises was kept in an inner room or in a cupboard. He would reserve judgment to consider the points of law raised. If his decision was against the plaintiffs, it did not prohibit them from proceeding against the defendant for selling the lotion.

Mr. Dunn said he could assure the plaintiffs that no more lotion would be made in future.

His Honour said he would give the plaintiffs leave to appeal if his decision was unfavourable to them.

Personalities.

MR. ARTHUR PAIN, chemist, has been elected to the Ipswich School Board.

MR. THOS. POSTLETHWAITE, pharmaceutical chemist, is opening a pharmacy at 131 Fawcett Road, Southsea.

MR. JOSEPH STRAUGHTON, chemist and druggist, Coker-mouth, has been elected a member of Coker-mouth School Board.

MR. CHARLES THOMAS SELLENS, chemist and druggist, High Street, Lydd (Kent), was on Friday reappointed elective auditor for the borough.

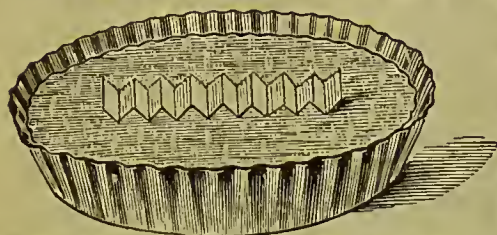
DR. W. A. WILKINSON, son of Mr. Wilkinson, chemist, of Colne, has been appointed one of the resident house surgeons to the Manchester Royal Infirmary.

DR. JOHN G. HEWITT, assistant demonstrator at the Cambridge University chemical laboratory, has been appointed by the governors of the People's Palace to the vacant professorship of chemistry.

A CHEMIST has disappeared—viz., Mr. William Whyte. He was last heard of at St. Vincent Street, Glasgow, ten years ago. His niece, Mrs. Bruce, 171 Gallow Gate, Aberdeen, is now seeking for information about him.

MR. W. B. FORDHAM, of the well-known firm of Fordham & Sons (Limited), had a visit from burglars at his residence, Holly Mount, The Burroughs, Hendon, on Tuesday night. Some silver articles and a considerable sum of money were carried off by the thieves.

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Editorial Comments.

CUSTOMS TARIFFS AND TREATIES.

THE advantages which this country has derived from the
commercial war that has now been raging for nearly a year

between Germany and Russia appear to be rapidly drawing to a close, for the probabilities point to an early passing into law of the commercial treaty which is now under examination by a committee of the Reichstag. Until this treaty is concluded all German goods entering Russia pay duty at the ordinary tariff rates, whereas in the case of most other countries (our own included) duties are levied at special rates averaging about one half of those of the ordinary tariff; while, on the other hand, Germany practically holds her frontiers closed against Russia by enormous duties upon the products of that Empire, chief among which are wood and cereals. Neutral countries have, of course, benefited by this commercial quarrel, which, among other changes, has had the effect of transferring a considerable portion of the export trade to Russia in drugs and chemicals formerly carried on from Germany to our own country and France. Soon after the outbreak of the Russo-German tariff war it became evident that a continuance of the struggle would inflict enormous injuries upon both countries, and a commission was appointed to arrive at some understanding. The treaty now before the Reichstag is the result of its labours. In it Russia reduces her tariff upon most manufactured articles coming from Germany, while Germany lowers her duties on Russian raw products. The treaty as it stands will be accepted by Russia, but its passing in Germany is strongly opposed by the landed interests, who naturally object to being swamped with Russian cereals. The new treaty not only reduces the Russian duties on German manufactured goods to their former level, but in many cases below it, and by such reductions the United Kingdom will also profit. Under the projected treaty the duty on chromate salts of potash, soluble in water (bichromate of potash, neutral chromate of potash, neutral chromate of soda), is fixed at 2.15 roubles per pound; on tannic acid at 5.0 roubles per pound; copperas at 0.80 rouble per pound; tartar emetic at 3.0 roubles per pound; chemical and pharmaceutical products not specially mentioned at 1.50 roubles per pound (gross weight); white lead and zinc white at 0.50 rouble per pound; red lead at 0.35 rouble per pound; verdigris at 3.60 roubles per pound; dyeing substances, obtained from products from the distillation of coal, alizarine, extract of madder, lac of madder or of alizarine, cochineal carmine, carmined lac or indigotin at 14.0 roubles per pound; and fine colours in tubes and in tin boxes, and liquid Indian-ink in flasks at 5.0 roubles per pound. The importance attached in Germany to the re-conquest of the Russian market is shown by the fact that the hotels in St. Petersburg and Moscow are already crammed with commercial travellers, ready to descend upon the Russian traders at the first intimation that commercial peace has been concluded.

In America the Wilson Tariff Bill is being overhauled by the Senate Finance Committee, who are reported to be engaged in making "wholesale changes" in the measure to reconcile both the representatives of powerful manufacturing interests and the Treasury officers, who fear that, as it stands, the Bill will result in too sweeping a reduction of the Revenue. By the time the Bill emerges from the Senate much of its drastic character will probably have disappeared, and in no case can it now come into force until July 1.

Already several important changes in the duties proposed in the original Bill have been carried, and among the chemicals thus affected are glycerine, the duty on which is to be changed from 1 c. per lb. to 20 per cent. *ad val.*; iodoform from \$1.00 per lb. to 25 per cent.; liquorice, from 1 c. per lb. to 25 per cent.; magnesia, from 3 c. per lb. for calcined and 5 c. for carbonate to 30 per cent.; olive oil, from 35 c. per gallon to 25 per

cent.; peppermint oil, from 25 per cent. to 20 per cent.; seal and other fish oil, from 25 per cent. to 20 per cent.; varnishes containing alcohol, from 25 per cent. plus \$1.32 per gall. on the alcohol to 30 per cent.; bicarbonate of soda, from $\frac{1}{2}$ c. per lb. to 30 per cent.; caustic soda, from $\frac{1}{2}$ c. per lb. to 20 per cent.; sal soda, from $\frac{1}{2}$ and soda ash, from $\frac{1}{4}$ c. per lb. to 20 per cent.; vinegar, from $7\frac{1}{2}$ c. per gall. to 20 per cent.; cocoa, from 2 c. per lb. to 5 per cent., and saltpetre from 1 c. per lb. to 10 per cent. Among the decreases on duty are acetic and tartaric acids, from 20 per cent. to 10 per cent.; flax-seed oil, from 15c. per gallon to the free list; cod-liver oil, from 20 per cent. to 10 per cent.; cosmetics, from 40 per cent. to 30 per cent.; cream of tartar, from 25 per cent. to 20 per cent. On the other hand, vermilion has been increased from 20 per cent. to 25 per cent.; Castile soap, from 20 per cent. to 30 per cent. The Senate has fixed the duty on Prussian blue at 20 per cent.; chromium at 25 per cent.; ochre at 25 per cent.; spectacles, opera-glasses, and optical instruments at 30 per cent.; and preserved milk at 20 per cent.

The announcement made by the Indian Government at the meeting of the Legislative Council in Calcutta on March 1, that an imposition of a 5-per-cent. *ad valorem* duty on imports, with the exception of cotton yarns or fabrics, was in contemplation, cannot have caused great surprise on the part of those who are in the habit of paying some attention to the affairs of our greatest dependency. The fall in the price of silver has been so serious lately that the Indian Government now have to provide means for covering a deficit of about 35 millions of rupees. Direct taxation being out of the question, it is proposed to cover this shortage by an import duty which is expected to bring in about 15 millions of rupees a year. The proposal has been referred to a select committee, which is now engaged in collecting evidence on the subject, and will publish its report on Saturday next; but there is very little doubt that it will be adopted substantially as it has been proposed. The omission to include cotton yarns and fabrics into the Bill rests simply upon political grounds, inasmuch as anything that would hamper the free export of these chief products of Lancashire would no doubt be severely avenged by the cotton operatives upon the Ministry that was held responsible. It has all the appearance of an Act of the lowest expediency, but may, perhaps, be defended upon the ground that the Indian cotton-mills which compete with the British industry already possess an advantage in the lower range of wages and the absence of any factory legislation in India.

A 5-per-cent. *ad valorem* duty will not be sufficient to keep any foreign goods, excepting possibly some of the lowest classes, out of the country. It will, therefore, not directly affect our Indian trade, and our druggists need have no fear that another foreign market will be wholly or partly closed to them. The imports into India of "chemicals, drugs, and dyes," were valued at 12,803,340rs. in 1889-90, 13,974,790rs. in 1890-91, and 15,352,160rs. in 1891-92, and stand (always excepting cotton-goods) eighth in importance on the list of the seventeen chief classes of manufactured articles imported into the country.

A special tax is to be put on petroleum. If high enough, this may give a renewed and much-needed stimulus to the native oil-trade, and thereby indirectly react upon the European prices of such commodities as cocoa-nut, castor, or mustard oil. The importation of petroleum oil into India has increased from 31,421,000 gallons in 1887-88 to 58,109,000 gallons in 1891-92, and the greater part of this trade has lately been acquired by Russia, at the expense of the United States.

EVOLUTION AT SOMERSET HOUSE.

THE policy of the authorities with regard to the enforcement of the provisions of the Food and Drugs Act, and the general conduct of the Somerset House laboratory, have often been submitted to severe criticism, especially from the side of public analysts, from whose findings the official chemists have sometimes been under the painful necessity to differ. That the Sale of Food and Drugs Act is not in all respects perfect may be admitted, but we are not aware that, so far as accuracy of analysis is concerned, the Somerset House chemists have ever been convicted of error. They have an arduous duty to perform, and in its execution they are constantly attacked, not only by professional chemists, but by ordinary political and society journals, whose ignorance in technical matters is exceeded only by their want of accurate information on other subjects about which they offer to enlighten us. As Government officers, the Inland Revenue chemists cannot engage in public controversy, and their enforced silence is often unfairly taken as proof that they have no defence. But it is doubtful whether any branch of the public service has been managed with more regard for the public interest, combined with greater zeal and accuracy in its technical work.

Important changes have just been effected in the management of the Somerset House laboratories. Dr. James Bell, who has been at the head of that institution for many years, has passed the age limit at which retirement from active service in the Inland Revenue becomes obligatory. He has retired into private life on a Government pension, carrying with him the hearty goodwill and respect of the staff over whom he has presided, and of the many professional and business men with whom his position has brought him into contact. In the ordinary course of hierarchic progress, Dr. Bell would have been succeeded by Mr. R. Bannister, who has for many years been his second in command. But the shifting of departmental functions and recent legislation in respect to fertilising agents have decreed otherwise. Mr. Bannister remains at the head of the Inland Revenue laboratory, but in view of the rivalry and occasional friction between this institution and the Customs laboratory, and also with a view to provide for the additional analytical work which will be required under the Fertilisers Act, it has been deemed advisable that the three departments together be placed under the control of a principal chemist. To this post the Treasury have appointed Professor Thorpe, of South Kensington, at an initial salary of 1,200*l.* a year, rising to 1,500*l.* after five years' service. For the present the laboratory at the London Custom House is to be maintained, but as its work, compared with that done at Somerset House, is infinitesimal, Professor Thorpe's headquarters will be in the huge building at the Strand. The new arrangement is the result of a recommendation by the Royal Commission on Civil Establishments that the Inland Revenue and Customs departments should be under one control, in order to ensure greater economy and uniformity of working.

We confess that we have hitherto lived in ignorance of the existence of that respectable body, the Royal Commission on Civil Establishments, but this is perhaps excusable in a period when Royal Commissions blossom like flowers after a summer shower. It appears that, besides the inquiry of this Commission, a small Treasury Commission, appointed expressly last year to inquire into the laboratory arrangements of the Customs and the Inland Revenue respectively, has been investigating the matter. They recommended a scheme which was found to be impracticable as a whole, but out of which the new arrangement has been evolved. The principal chemist will act as general adviser of the Government, and is expected to

bring into line the administration of the laboratories of the two Revenue departments. No other way of securing uniformity seemed to be open to the Treasury authorities, and in making the Inland Revenue Laboratory the General Government Laboratory they will be able to utilise the services of the large staff therein employed, whose work has increased by leaps and bounds. No doubt the change from departmental to Treasury supervision will cause some heartburnings, but time will efface difficulties. It is an open secret that for some considerable time there has been a lack of harmony between the Customs and the Inland Revenue laboratories, which has sometimes militated against the smooth working of both departments in their dealings with the public. Such differences certainly ought not to occur in two departments both supposed to work for the same ends, and it will be a considerable advantage if Professor Thorpe is able to remove all manifestations of such jealousy. The chemical work of Somerset House is constantly increasing. In the financial year ending March 31, 1893, 48,740 samples were analysed by its chemists. The drawback regulations for the export of spirituous medicines and the experimental work on disinfectants conducted for the Board of Trade have largely added to its work during the past two years. As scientific development progresses, so the wiles of the sharpers who attempt to impose upon the public with adulterated goods become more acute; and so eminent a scientist as Professor Thorpe will therefore find an excellent scope for the exercise of his attainments in his new position.

ANCIENT CHEMISTRY.

M. BERTHELOT, the eminent French chemist, has in these latter years devoted himself with much persistence to the study of the history of chemistry. His equipment for work of this kind is of an unusually complete character. In addition to his scientific attainments, he is a clear thinker, a close reasoner, and gifted with unusual critical ability. So much as this it is, perhaps, necessary to say, because his conclusions are not always in accordance with those generally received. The merit of M. Berthelot's investigation lies in the fact that he has not been contented to accept any statement at second-hand. The great libraries of Europe are rich in texts bearing upon alchemical science and the beginnings of chemistry, but to a great extent these ancient MSS. have been overlooked or ignored. M. Berthelot has devoted ten years of patient study to their elucidation, with the valuable help of some of the most learned Egyptologists of the day. Many of these texts have been printed in the *Origines de l'Alchimie*, published in 1885, so that they are now open to students of science generally. The recent publication of *La Chimie au Moyen Age* completes M. Berthelot's work. An interesting epitome of the whole subject was published in the *Revue des deux Mondes* for September 15 and October 1, 1893.

The starting-point of the alchemic tradition is lost in the mist of ages. Zosimus the Panopolitan traces it to the rebel angels, who, seduced by the love of women, betrayed its secrets in return for their favours. For this they were driven from Heaven, and thus was founded the race of Giants. Tertullian, writing of this tradition, held that the secrets confided to women by the fallen angels related to the art of poisoning, to transmutation, to magical incantation, and to working in precious stones.

It is curious how widely disseminated this myth became in the dark ages, but it is only part of that intimate blending of early science with religion which all history teaches. In fact, all early science was of a religious character. The temples of the East were the storehouses of learning. All

industrial work was inaugurated with magical rites, and the priest was as important as the builder.

In Ancient Egypt alchemy was the "sacred" art, and was taught only to kings' sons. All Egyptian learning was symbolic, and language is so continually used in a vague and enigmatical sense, that it is difficult to define its precise meaning. The pupils of the alchemists were bound by oath to keep secret all teaching imparted to them. Nevertheless, the Egyptian people possessed a wide knowledge of the working of metals, of alloys, of working in glass and precious stones, similar to that practised by the alchemists of a later age. A papyrus discovered in a tomb at Thebes gives instructions for purifying, tempering, and soldering metals; for making glass; for mixing love-philtres; for procuring dreams; and for ensuring the success of any undertaking. This papyrus, M. Berthelot believes, contains the oldest-known alchemical receipts.

M. Berthelot insists on an intimate connection between Babylonian, Chaldean and Egyptian science. The story of the philosopher's egg appears to have been common to all.

There is preserved in the National Library at Paris a number of alchemical manuscripts of great interest. They were brought into France in the reign of Francis I., who made extensive purchases of books in Greece and in the East generally; they were written in the Greek language and copied in the 15th century. A still earlier manuscript is that of St. Mark, at Venice. This dates from the 11th century. It bears marks of loving study and has many marginal notes. Its pages are stained by chemical substances and its figures are more carefully drawn than those in the later MSS. It probably represents the position held by the occult sciences in the 4th century, or even at an earlier period. Many of these texts were probably written by authors who had seen and studied those priceless works of early learning which have been lost to us by the destruction of the Alexandrian Library.

To say that these MSS. have been discovered by M. Berthelot would be incorrect. Borrichius, a Danish doctor, referred to them in the 17th century. They were known to Du Cange and Reinsius. Hoesler published extracts from them in his History of Chemistry, but it is M. Berthelot who has assigned to them their true importance.

It has been usual to look upon Arabia as the birthplace of chemical knowledge. M. Berthelot claims to have proved that this was not so, and contends that the part played by the Arabs, even as transmitters of an earlier knowledge, has been greatly exaggerated. The fact seems to be that eastern science has come down to Europe in two well-defined streams, one by way of Syria and Arabia, the other from Egypt through the Alexandrian Greeks and the industrial arts of the Roman Empire. A great part of Arabian learning was of Hellenic origin. The book of Crates is impregnated with Greek ideas, and the same may be said of the authentic works of Geber. The importance of Hellenic influence has perhaps been overlooked through the absence of alchemical symbols in the Arab writings. This is most likely due to Mussulman intolerance of everything pertaining to magic. It is a curious fact that alchemical symbols do not appear in the Latin translations of the thirteenth century, and their reappearance at the close of the fourteenth century was owing to the direct influence of Greek authors. The art of distillation, which has been generally attributed to Arabia, was really practised in Greece centuries before the birth of Geber, and the same may be said of many other processes.

Arabian influence has been exaggerated also in assigning to Arabic authors Latin writings of a later date. There is strong internal evidence that the Latin works of Geber are spurious. His undoubtedly genuine works are full of

declamative and vague idealism, charlatanesque to a degree, but containing philosophical ideas, generally of Greek origin. For instance, he traces an analogy between metals and living beings similar to that which exists between the body and spirit. This corresponds with Aristotelian theories. That Geber was conversant with Greek philosophy is attested by his translation of the logic of Aristotle and other works of a metaphysical character. But the Latin words attributed to him are of a different order altogether. They are scholastic in style and method, and treat of matters unknown to Arabian scholars. In the "Alchemy," mistakenly attributed to Geber, the manufacture of nitric acid is described, although its discovery took place long after his death.

Broadly speaking, M. Berthelot maintains that Science properly so-called originated with the Greeks. All knowledge anterior to them was of a non-rational character, steeped in mysticism and sacerdotalism, even when most usefully applied. But in science, as in literature, the Greek intellect was clear, critical, and perceptive. Thus came about that divorce between Science and Empiricism which elevated the epoch of the 6th century to a point beyond which but little progress was made until the end of the 16th. Not that this growth was sudden—superstition dies hard; but charlatanism became discredited by enlightened minds, and had far less sway than in later times, when the antique culture was swamped by the breaking-up of the Roman Empire. This enlightened knowledge was transmitted through Syria to its Mussulman conquerors. Syrian scholars translated and edited Greek authors, Aristotle particularly. Alchemy, medicine, and astronomy were their favourite studies, and professors of these sciences acquired great influence at the Courts of the Byzantine Emperors. Bagdad eventually became the seat of important schools. It is to Syrian scholars that we owe many of the most important alchemical manuscripts scattered through the libraries of Europe. They are generally translations from the Greek, and form the basis of M. Berthelot's historical theories. An important MS. in the British Museum commences with a list of symbols—the names of the metals and those products of *materia medica* employed in chemistry. These are identical with those of the Greek authors. M. Berthelot remarks that in this the names of the metals are associated not only with those of the corresponding planets, but also with those of similar Babylonish divinities. Tin is represented at the same time by Zeus and by Bel; copper by Venus and Bilati, or by Astera; lead by Kronus and by Camosch. The seven earths, the twelve stones employed as remedies and for amulets, the nineteen coloured metals used in tinting glass, recall those numerical combinations so dear to the Neo-Pythagoricians and to Orientals generally. There are besides, a number of other manuscripts written in Latin, which prove that chemistry—particularly as applied to the Arts—was practised long before the Arab influence made itself felt in Europe. There are of an essentially technical character. The *Compositiones ad tigenda*, a manuscript of Lucques, contains recipes for tinting mosaics, dyeing skins, gilding iron, writing in gold, &c. Italian jewellers made use of many of these formulæ. Recipes also for soldering and for reducing the precious metals to powder are numerous. This was an important art in the Middle Ages, facilitating the carriage of gold from one country to another.

Many of these old manuscripts are really trade-manuals and collections of workshop-receipts rather than treatises of learning. The Syriac MS. at Cambridge includes twelve books written by Zosimus, a Greek author, who lived in the third century of our era. These books are lost in the original Greek, but their authorship is uncontested. They treat, amongst other matters, of working in copper, tin

mercury, lead, electrum and iron. Several of these preparations are referred to under the names of their authors, as is the custom at the present day. This, as pointed out by Berthelot, was quite opposed to Egyptian tradition, which attributed all alchemical works to Hermes. The special interest possessed by many of these ancient texts consists in the fact that they have been completely ignored by the historians of chemistry in past times, and in the light they throw upon European science before the time when Arab learning became prevalent in Europe. A tradition of the manufacture of unbreakable glass runs all through the middle ages. It is frequently referred to in these texts, and is said to have been discouraged by Tiberius on account of its influence on existing trades. These treatises influenced the whole industrial life of the dark ages, particularly in Italy and France. They represent alike the work and the culture of a period extending from the early years of the Christian era to the time when a similar stream of knowledge coming from the same Greek source passed by way of Syria and Arabia into Europe through the medium of the Crusades.

HE DON'T KNOW HIS SCHEDULE.

The scientific authority on the *Newcastle Daily Chronicle* is "inclined to suggest" that chloroform "might advantageously be scheduled as a poison." How great minds think alike! The Legislature had a similar idea 26 years ago—and carried it out.

HOW MUCH POISON MAY UNREGISTERED PERSONS SELL?

The case of the Pharmaceutical Society v. Armson is now en route for the House of Lords. We give a verbatim report of the Derby County Court judge's decision in this matter in view of the probability that this will be a test case, and also because he indicates very clearly the question at issue as at present revealed. In the chlorodyne case the High Court held that 2 grains of morphia to the fluid ounce was certainly sufficient to bring the preparation within the control of the Pharmacy Act. But when the Pharmaceutical Society asked for a judgment in the licoridine case which would have virtually declared that the presence of any quantity of a scheduled poison however small, even though it might be no more than the one-fiftieth of a grain of morphia to the ounce, brought a compound containing that proportion within the Act, the High Court rejected the claim on the principle of *de minimis non curat lex*. Now comes a case well between these two extremes. According to the evidence submitted at Derby, Powell's Balsam contains only about one-tenth of a grain of morphia to the ounce. The question raised is, Is the law going to trouble itself about this proportion? We have reason to believe that both sides have the fixed intention of getting a definite answer on this point.

SULPHO-CYANIDE OF MERCURY.

We presume the letter, which we quote elsewhere from a photographic journal, in which the Britannia Company give an extract from a letter they have received from the Secretary of the Pharmaceutical Society may be relied upon. If so, we may be allowed to ask who has given the Secretary of the Pharmaceutical Society authority to interpret the Pharmacy Act. Sulpho-cyanide of ammonium may or may not be a metallic cyanide: the point is at least an arguable one. But, whatever the opinions of pharmaceutical authorities may be, it is no part of their duty to expound the law. The Pharmacy Act is a public statute, the construction of which rests with the courts of law. The Pharmaceutical Society may as a matter of courtesy give their opinion when asked, though it might be prudent that they should not be too free in this respect. At any rate, the Britannia Company

and the readers of their letter should have it made clear to them that they have only obtained an expert opinion—not a judicial decision.

A PHARMACEUTICAL MENAGERIE.

A representative of THE CHEMIST AND DRUGGIST was recently in Lyons, and in transacting his business had occasion to pass through the rue Lanterne in that town. He had already visited English villages where the High Street is enlivened by the sign of the Blue Boar, opposite to the Red Lion, with the Pig and Whistle in close proximity, and the Black Dog round the corner. But the pharmaceutical analogy to this animal-worship was somewhat of a novelty. Leaving the Hôtel de Ville, the corner-house of the rue Lanterne (No. 6) bears the sign "Au Lion." It is a small new pharmacy, with the leonine head neatly carved over the front door. An occasional shop-sign is too common in France to receive much attention, but this proved to be only the advance-guard. In the narrower and more ancient half of the street another "Droguerie Pharmacie" came in view (No. 16), one window of which bore a gaily-painted crocodile in the position known at the Herald's College as "rampant," while the other panes bore coloured representations of two animals which strained one's zoological knowledge. One resembled a marten or polecat, while the other should have been an armadillo or pangolin. No. 27 was again a Droguerie Pharmacie, and here an equally strange beast was sculptured in wood in front of the window. The inscription informed passers-by it was a unicorn. Just opposite, another drug warehouse (No. 26) displayed a well-carved dragon of the Chinese persuasion. Chemicals are dispensed at the sign of the Antelope at No. 30, the corkscrew-horned beast, carved life-size, being placed just under the principal window. No. 33, "La grande Pharmacie de l'Eléphant," a corner-house, displays four painted statues of the patient pachyderm in as many windows, each bearing on its back, in place of the usual ower, a howdah, with an array of bottles filled with the specialties of the house. At a rival establishment just over the way "Au Serpent," a horrible boa writhed round a tree-stump in the window, and figured on all the labels of the remedies for suffering humanity. This was the last house in the street, but just in front, in the rue Longue, a Polar bear was embracing a tree-stump, "A l'Ours blanc" finished off the collection. This sufficed to give the *C. & D.* man food for thought, as he passed on, wondering what trees grow in the Arctic regions. A distinctly modern feature in this competition is the elephant disputing with the serpent and another uncanny beast the title of "only dépôt" for a certain cough-remedy, there being three of these "sole dépôts" for the same product in the one street—and this, as we have already stated, was in Lyons, not in Cork.

PRODUCTION OF VACUA.

Professor Dewar has patented his method of producing high vacua. He first fills the vessel to be exhausted with a condensable vapour, excluding atmospheric air. He then subjects a portion of the vessel, which can be hermetically sealed off from the main body, to a lower degree of temperature than the latter, whereby the vapour is condensed, producing a highly vacuous space in the main vessel, the degree of vacuity being in proportion to the lowering of the temperature in the subsidiary vessel. The latter is then hermetically sealed and removed. The vapours proposed to be used are mercury, iodine, sulphur, or selenium, or compound volatile inorganic or organic substances.

POTTERY, CHINA, AND GLASS EXHIBITION AT THE IMPERIAL INSTITUTE.

The "United Kingdom" section at the Imperial Institute has been very much of a blank up to the present, but the

Council are going to turn the large gallery set apart for home-industries to very good use this summer. They are now making arrangements for holding there, this summer, an exhibition of the artistic and decorative pottery, china, and glass manufactures of the United Kingdom. The exhibition will also include any specimens that may be received illustrating the condition of these industries in the colonies and India, but no special effort will be made to obtain such. The advisory committee includes eight representatives of china and pottery, and eight others of the glass manufacturers. The exhibition will be open from the middle of May to the middle of September, and all exhibits must be at the Institute by noon on May 9.

The exhibition will be confined to the display of pottery, china, and optical, decorative, and artistic glass, manufactured in the United Kingdom, and to the practical illustrations of processes in their manufacture. No exhibits (excepting colonial and Indian ones) will be received from other than manufacturers.

The Institute provides space free of rent; also attendants, lighting, and supervision; but exhibitors must pay for the installation and arrange their exhibits.

No sales will be allowed, nor will exhibitors be permitted to take orders for articles at the exhibition. No circulars or trade-cards must be distributed by exhibitors.

It will be seen that the terms are as liberal as any exhibitor could wish. The last proviso, we think, is a particularly good one, inasmuch as it will tend to keep away those mere bazaar-peddlars whose only object is the acquisition of a good pitch for sales over the counter, and whose brazen importunity is gradually bringing exhibitions into disrepute. Requests for further information should be addressed to the Secretary of the Exhibition, Imperial Institute, London, S.W.

A PHANTOM TEMPLE.

It is not often that one can point to an error of fact in the *Times*, but that journal has made a singular blunder recently in one of its reports on the proceedings of the Opium Commission. It was stated there that some persons connected with the "Materia Medica Temple" at Patna gave evidence. Anxious to know what shrine this might be, and not finding the place on our subscription-register, we made inquiries in India, and have received a reply from Surgeon Lieutenant-Colonel E. Bovill, M.D., Principal of the Temple Medical School at Bankipur, who informs us that the "Temple" referred to in the *Times* report is none other than the school of which he is the head, and which is a good institution for the education of a subordinate grade of medical men, known as "hospital assistants" if they go into Government employ, and "native doctors" if they set up in private practice. The gentleman from Patna referred to in the *Times* report as having given evidence was Assistant-Surgeon Babu Surji Narain Singh, the teacher of materia medica in the Temple Medical School. Hence this derangement of epitaphs.

THE CHEMIST TO THE LOUTH COUNCIL.

There has been trouble in Louth over the Mayoral election and the questions raised have had to be settled by a Queen's Bench Divisional Court. It appears that a Mr. Longbottom was elected by the casting-vote of the Mayor, the previous voting having been 11 for him and 11 for a Mr. Cusworth. But as Mr. Longbottom had voted for himself, and as there is a salary of 30*l.* a year attaching to the office, this vote was declared invalid. It was found, however, that one of the votes for the rival Councillor had been given by Mr. Griffin, a chemist, who held an office or place of profit in the gift of the Council. Mr. Griffin had been appointed "chemist to the Council," and in that capacity he had supplied to a member of the Fire Brigade fourpennyworth of oil! Bang went his vote, therefore, and this saved the situation. The Mayor's casting-vote was held to be good,

so Mr. Longbottom continues to hold the office, and Mr. Griffin, we hope, will retain his place of profit and honour, though he voted for the other man.

EMULSIONS.

"An improvement in the manufacture of emulsions" has been patented in England by Mr. H. Helbing. The emulsifying agent is dextrin. Nothing particularly new in that; but Mr. Helbing puts vinegar along with the dextrin, mixing the latter with the oil first, or with the vinegar, as desired. After the three things are made into a homogeneous mass other medicinal ingredients or flavouring agents may be added. The use of dextrin as an emulsifying agent has been for years adopted in the American National Formulary. We published the recipe for cod-liver oil emulsion, N.F., in our issue of March 23, 1889, and previous to that also.

ABOUT CASTOREUM.



F all the sudden fluctuations in the market position of drugs which we have lately recorded, the rapid advance in the price of castoreum during the past two or three years has been one of the most remarkable. There are not many pharmacists who ever get an opportunity of seeing the drug, or whose knowledge of it, in the natural state, goes farther than the statements in the text-books, which tell them that castoreum is the secretion contained in the castor-glands of the *Castor Fiber*, forming a waxy substance of extremely pungent odour, found in two large pockets placed near the base of the tail of the animal, enveloped in muscles specially fitted to enable the discharge of any portion at will, and which pockets are not connected with any other organ. Piesse tells us that the odour of castoreum is developed in an extraordinary degree when the substance is infused in alcohol: 2 oz. of the drug in a gallon of spirit will make a standard extract, but if more than a quarter of a pint of the extract be added to a gallon of any other scent, the characteristic castoreum odour eclipses all the others.

SIBERIAN AND CANADIAN CASTOREUM.

At present the beaver is probably much more numerous in the Siberian than in the Canadian forest-rivers, and he will probably survive in Asia long after his extermination on the American continent. But the habitable parts of Siberia are also gradually being brought under cultivation, and where the engineer and farmer penetrate, thence the beaver disappears. At present our market-supply of castoreum still comes mainly from Canada. The Canadian article has risen in price tremendously during the last few years, and it now realises nearly five times as much as in 1886. The interesting statistics which we publish on another page of this issue show that the rise in price of castoreum has altogether outrun the dimensions warranted by the diminution of the supply, and from these circumstances it may be inferred that beaver-hunting will receive fresh encouragement, and that—for a period, at any rate—castoreum will become once more sufficiently plentiful to allow of a considerable reduction in price. But it is not so certain that this will be the case, inasmuch as nearly the whole of the business is in the hands of one large trading concern, the Hudson's Bay Company, whose interest lies in the preservation of the high prices now ruling, and who will probably see to it that the market is fed sparingly. The Company have long been in the habit of holding two auctions every year; the principal one about the middle of December, and a smaller one in the spring. Most of the castoreum offered at these sales is bought for export to the Continent and India, for although, as our correspondence columns of the last few weeks have shown, the drug is still occasionally prescribed in this country, the consumption here is of no account compared to that in

France, as an ingredient in perfume-manufacturer, and in other countries as a medicine.

Singularly enough the price of Siberian castoreum has declined almost in the same proportion as that of the Canadian article has risen. About twenty-five years ago Siberian castoreum, then of extreme scarcity, is said to have realised as much as 22*l.* per lb. in the European markets; in 1891 it might be had for a tenth of that price; but since then it has again doubled in value. It was formerly official in the German Pharmacopœia. In 1878 and 1879 castoreum from beavers caught in the Elbe and other German rivers was still offered in the market. The quality, however, was not much liked, and the drug does not appear to have been offered in quantities of sufficient importance to make it a commercial article. In value it ranged about midway between Canadian and Siberian castoreum.

AN INTERVIEW AT THE HUDSON'S BAY COMPANY.

A representative of THE CHEMIST AND DRUGGIST, anxious to find out something about that part of the trade in castoreum which ends with the selling of the drug at the London auctions, called for that purpose upon Mr. W.

Halsey, the Hudson's Bay Company's broker, at the old house of the company in Lime Street.

Mr. Halsey was busily engaged sorting skins, still, as ever the principal article of trade of his company. During the winter-time every minute of daylight is valuable to a skin-valuer, for the goods cannot be properly judged by artificial light, and the aggregate yield of a Hudson's Bay sale runs into thousands of pounds. On January 15, for instance, Mr. Halsey's auction catalogue included 46,412 beaver-, 648,687 musquash-, and 58,154 American rabbit-skins, not to mention 11,799 salted and 353 dressed fur-seal hides.

"Now, sir," said Mr. Halsey, when the grey twilight began to descend upon Lime Street and soften the severe contours of its brick walls, "I am at your disposal"; and with that he divested himself of his cotton overalls and turned up a book of prices realised at auctions. "You want to know about castoreum, isn't it?"

Our representative assented, and thinking that he might as well go to the heart of the matter at once, asked, "Where do you get your supplies from at the present time?"

"Well," said Mr. Halsey, "I don't know that it would be wise to answer that question right off. As you probably know, our castoreum bears different marks, which roughly indicate the districts it comes from. Thus W stands for Fort York, here, about half-way up the West Coast of Hudson's Bay. All the castoreum that comes in from the region north of Canada proper and east of the Rockies is brought into trade by way of Fort York." And Mr. Halsey's hand covered a district on the map measuring so many hundreds of thousands of square miles that any fear of a competitor acquiring valuable information from the Fort York tip may be dismissed as groundless. "Then there is MR; (Moose River, a fort of ours at the mouth of the river of the same name, at the southernmost end of the Bay,) castoreum so marked comes mostly from the Moose River district—partly also from Western Canada. The 'Canada' mark indicates the produce of Eastern or Lower Canada, and by N.W. (north-west) we understand everything produced west of the

Rocky Mountains. These are the four great geographical divisions of the drug."

"As to prices?"

"The price has risen enormously lately, as you know, and I am convinced that the rapid diminution of the supply is a partial explanation of that fact. The beaver's days are numbered. He cannot co-exist with civilisation. Until the last few years we imported 100,000 skins a-year on an average. This year we have barely received 60,000, and the prospects for the future are still worse. Our castoreum auctions, too, have declined from an average of about 2,500 lbs. per annum about ten years ago to barely 1,300 lbs. now."

THE END IN SIGHT.

"Then you look forward to the time when a castoreum-pod will be as scarce as a Great Auk's egg?"

"I am afraid that will be the end of it. The beaver cannot be domesticated. All attempts to rear him in captivity have failed."

"Your last small December sale does not represent the whole quantity you intend to offer this season, I presume?"

"We shall have a small sale of N.W. castoreum in March or April, but it will not exceed a few hundred pounds. It takes some time longer for this brand to reach here than it does for the others. As the bulk of our castoreum is here in December we always have a sale in that month, and what little comes afterwards is sold in the spring or early summer. At one time our company were the only importers of castoreum," said Mr. Halsey, "but now there are others in the field. One firm import from the United States, and I believe that some castoreum also comes from Alaska. It is cured quite differently to ours."

"I should like to hear something about the preparation of the drug."

"I regret I cannot enlighten you about that," came the answer. "The Indians who trap the beaver bring the skins and castor-pods to our forts and exchange them for provisions and clothing. They are very clever at adulterating the pods, filling them with rubbish, and closing them up again so that it is difficult to detect the fraud, and our officers require to be very careful. The castoreum is generally somewhat wet when it arrives here, and it is graded into 'firsts,' 'seconds,' 'thirds,' and 'pickings,' according to its quality. When skins were more plentiful than they are now, and castoreum was worth only about 15*s.* per lb. or so, we thought very little of it as a branch of our trade, but nowadays it is an item of fair importance in our business."

"See here," continued Mr. Halsey, turning over the pages of his sales-books. "The lowest price on record is 7*s.* per



CANADIAN CASTOREUM-PODS.



THE BEAVER AT HOME.

lb., and from 1881 onwards the average price of our consignments has steadily risen from 2*l.* up to 10*l.* per lb., and the quantity offered for sale has diminished by one-half."

"But if you ground your reason for an advance entirely

upon the increasing scarcity of the drug, how do you explain that the value has multiplied by five while the supply has only fallen off one-half?"

"Probably the use of castoreum in medicine is increasing, and the substance is one of those, you must remember, for which there is no substitute. To the medical man or perfumer the price is a matter of secondary importance."

With this our representative took his leave, to devote himself to the historical side of this interesting subject.

In 1536, when Jacques Cartier, the first European who trod Canadian soil, landed upon the shore of the St. Lawrence River, the beaver was distributed over a larger area than any other animal in North America. Its habitat ranged from the Mexican Gulf to the Arctic Ocean and from Alaska to Florida. On vast tracks of prairie-land within these boundaries it was, of course, unknown, but along the great rivers the rodent overran the country. It was hunted by the Indians chiefly for the sake of its fur, its flesh, its castoreum, and the supposed curative properties of its fat, but the natural increase of the animal must have greatly exceeded the numbers slain to furnish raiment to the redskin.

CASTOREUM IN SEVENTEENTH CENTURY THERAPEUTICS.

With the advent of the white man the beaver's period of tribulation commenced. To the unsophisticated mind of the redskin a piece of scarlet cloth, a string of beads, or a musket was a possession acquired absurdly cheap at the cost of many beaver-skins, and beaver-hunting at once became a profession, followed with all the enthusiasm that the hope of acquiring some of the white man's trinkets could inspire. The medicinal virtues of castoreum and other parts of the animal soon became famous in Europe, although a century and a half, in the course of which many millions of beavers had been sacrificed upon the altar of commerce, elapsed between the discovery of Canada and the publication of the first European treatise devoted to the medicinal virtues of castoreum. That treatise, published in the year 1685, was the work of one Joannes Franco. It bore the following lengthy explanatory title:—"Castorologia," explicans castoris animalis naturam et usum medico-chemicum, antidotum (?) à Joanne Mario, Bollensi et Physico Ulmano postea augustano celeberrimo labori insolito subjecta. Jam vero ejusdem auctoris et aliorum Medicorum observationibus luculentis ineditis, adfectibus omissis, et propria experientia parili labore aucta à Joanne Franco."

According to the author there were few parts of the beaver that were not medicinally valuable. Indeed, he avers that the beaver was hunted for "its skin, its fat, its blood, its hair, its teeth, and especially for its pockets, or tumours, which are placed in the groins." The skin is alleged to cure bed-sores and consumption in children, and to be eminently useful in "colic, madness, and spasms." The beaver-fat is an excellent cure for affection of the nerves, epilepsy, apoplexy, toothache, asthma, dysentery, and strains. The blood was also given as a remedy for epilepsy, the hair was recommended as a styptic. Beaver-teeth tied round the necks of infants were esteemed excellent in promoting the cutting of the teeth; powdered, they were given in soup to epileptic children. The author of the treatise mentions a number of cures effected by him in cases of sciatica, "loss of memory," pleurisy, and so on.

"The doctors of Augsburg," continues this writer, "have introduced castoreum into thirty of the best compositions of the Pharmacopœia. It destroys fleas, is an excellent stomachic, stops hiccup, induces sleep, strengthens the sight, is used as an antidote to the sting of scorpions, spiders, and the tarantula, the bad effects of opium (*sic*), and even against the pestilence." In this style the learned author meanders on through pretty nearly all the complaints known to the faculty, winding up with a eulogy of the drug as a "proved remedy for earache, and not less efficacious in deafness."

TRIALS, TROUBLES, AND TRIBULATIONS.

Probably castoreum was low in price at the time. There is no particular reason why it should have been otherwise, for hunting went on merrily (from the huntsman's point of view) all through the seventeenth and eighteenth centuries. We have no means of tracing the market-value of the drug when

"Castorologia" was issued, but in the price-list of 1756, which we reproduced in facsimile some years ago, we find "Castor, Hudson's Bay" quoted at from 8s. to 9s. 6d.; "Castor, New England," at from 7s. to 7s. 6d.; and "Castor, Russia," at 36s. per lb. It is curious to observe how from the earliest times on record until quite recently, Russian and Siberian castoreum has been held in higher esteem than the American drug.

But let us return for a moment to the history of the persecution and extermination of the beaver. Ten years before Jacques Cartier descended upon Canada the beaver breathed his last in the British Isles, but so late as 1714, when the Canadian beaver-skin trade had been in full swing for generations, numerous colonies of the European beaver were still found along the River Elbe, where they were protected from extermination by law. The first Canadian fur-trading post was established in 1604, and from that time onward until within the memory of the present generation, the unfortunate rodent was the prop of British North American trade.

Attacked from the North by the agents of the "Company of Adventurers Trading into Hudson's Bay," by the Dutch, and later on the British, from the New England side, by the French from the St. Lawrence, and by the Indians from all parts, the beaver quickly disappeared from all its haunts accessible to man.

In 1733 the Hudson's Bay Company exported annually about 15,000 beaver coats and 175,000 skins, while the French company of Canada, in 1715, sent to Europe about 100,000 skins, and 80,000 more came into trade *via* New York. Beaver-skins were the standard of value of all goods traded with the Indians, and from an "Account of the Countries Adjoining to Hudson's Bay," published in 1774 by Arthur Dobbs, we find that in that time three marten-skins, one wolf-skin, or 1 lb. of castoreum were reckoned as the equivalent of one beaver-skin. On the other hand, the Indian had his choice, from among other commodities, of one dozen needles, one checked shirt, 1½ lb. of gunpowder, or a dozen buttons in return for such skin. In such trading matters, the "giving too little and asking too much" was not confined to one particular European nation.

HAPPIER TIMES.

In 1821 the North-West Company of Canada was incorporated into the Hudson's Bay Company, and shortly afterwards measures were devised for putting an end to the reckless extermination of the beaver. A still greater piece of luck befell the wretched animal a few years later, when the adoption of silk to the hat-making industry sealed the doom of the heavy beaver hat, which had flourished so long as the Moloch to which millions of the rodents had been sacrificed. But for this invention the beaver would now probably have been as extinct as the bison, for early in the century matters were already rapidly tending that way. In 1814, as far in the interior as the Mackenzie River, the Indians complained of the want of beaver, and presently all the posts in that district were closed for that reason alone. Immediately after the rise of the silk hat, however, the beaver began to show a noticeable increase in many parts of Canada, and for many years—in fact, until well into the sixties—it must have seemed to the animal as if the old Indian days were returning. Railways and immigration, however, have since had their effect upon the beaver and elbowed it out of all the cultivated districts.

The map here reproduced, which is taken, with our other illustrations, from another book called "Castorologia," published a couple of years ago, shows the distribution of the beaver about the year 1850. According to it, the animal at that time had disappeared south of the St. Lawrence, and had lost its hold upon the United States, all but a small section in the extreme north-west. Major W. Ross King, in his book "The Sportsman and Naturalist in Canada," states that: "At the present time (1866), the beaver is found on lagoons and streams in the country about Lake Superior and the Roseau River. Eastward it is tolerably plentiful on many of the small tributaries of the Restigouche, and in the more remote regions of British North America is abundant"; and Mr. Horace T. Martin, a Canadian author, writing in 1892, observes: "Some colonies still linger in the United States, on the slopes of the Rocky Mountains, and are sparsely

scattered over the continent; but along the watershed between the Hudson's Bay and the St. Lawrence, in the



DISTRIBUTION OF THE BEAVER IN 1850.

upper waters of the Frazer and Peace Rivers, and along the (Canadian) Rocky Mountain range may be considered the last homes of the beaver."

CASTOREUM AS A BAIT.

The possession of castoreum-pouches has been a fatal gift to the beaver. Until the end of the last century the Indians were restricted to few and comparatively clumsy methods in hunting the animal, but at that time the natives of New Brunswick and of certain portions of Canada, observing the success of the white man in catching fur-bearing animals with a steel trap, turned their attention to the possibility of adopting this means to augment their store of beaver-skins. The one difficulty in the way was that no bait was known sufficiently attractive to allure the beaver to it in preference to the vegetable foods in its haunts; [it lives mainly upon the rhizome of the large yellow pond-lily (*Nuphar luteum*)]. Mixtures of various drugs, foods, and herbs were tried in vain for a long time, until at last someone hit upon the idea of baiting a trap with castoreum, the beaver's own secretion. The effect was marvellous. The beavers rushed to the castoreum-baited traps, like Indians to whisky, as if impelled by an irresistible force. As Mr. David Thompson, a careful observer of life in the Canadian backwoods at the end of the last century, puts it, "The secret of the bait was soon spread. Every Indian procured from the trader from four to six steel traps (weighing from 6 to 8 lbs. each), and all labour was at an end: the hunter moved about at pleasure with his traps and infallible castor-bait." Mr. Thompson saw several instances of the infatuation of the beaver for castoreum. Sometimes beavers escaped from castor-baited traps with the loss of limb, but they would invariably return to their doom within a couple of nights. The castoreum stick was always licked clean, and the substance seemed to act upon the animal like a soporific. When the Nepissing, Algonquin, and Iroquois Indians had exhausted their own districts they followed the retreating beaver North- and Westwards. For a while the Indians revelled in gin, beads, and scarlet cloth, and the traders' canoes carried such loads marketwards that beaver products became almost unsaleable in the London market. But within four years of the introduction of the castor-bait the whole country of the three tribes mentioned was beaverless, and the Indians fell into a state of helpless poverty. The profits to the white trader on the sale of beaver-skins at the commencement of that period are said to have averaged 2,000 per cent.

The castor-trap has never been superseded, and to this day every trapper carries among the impedimenta of his craft a bottle of "medicine," consisting of a vegetable extract of some kind flavoured with castoreum. The castor used for trapping is not smoked and cured like that seen in the London market, but consists of the fresh, oily substance. It is also employed now for trapping lynxes and other valuable fur-bearing animals, for which the secretion possesses a fascination second only to that which it exercises upon its own producer.

Among the Indians castoreum has been held in therapeutic repute from time immemorial, and they also use it to flavour

the hark-mixture which they are in the habit of smoking when tobacco is scarce.

ATTEMPTS AT PRESERVATION.

The Hudson's Bay Company are now doing all in their power to prevent the total extermination of the beaver. They have systematically set aside certain islands, particularly favoured by the animals, along the coast of Hudson's Bay, as beaver reserves. These islands are visited every third year (which is the period in which a beaver kitten matures), when as many animals are killed as are calculated to represent the natural increase during that period. But within a few years the beavers will have destroyed all the trees in the islands, and then, unless new preserves are started, the animal will probably be within measurable distance of extermination. Proposals for the establishment of beaver ranches, however, are constantly being mooted in the Canadian Press. In certain parts of the Canadian Rockies, where colonisation is now taking place, the beaver colonies are said to be protected expressly in order to preserve the water-supply, for experience has shown that in many parts of British America the extermination of the beaver has been followed quickly by severe droughts.

BEAVER TOKENS.

The beaver is the national emblem of Canada. It appears upon the arms of that country from the times of its first



THE HUDSON'S BAY COMPANY'S BEAVER TOKEN.

settlement. Its name survives in scores of Canadian rivers, settlements, and miscellaneous landmarks. It has a place, as philatelists well know, in the postage-stamps of the Dominion. "Beaver tokens" were issued at one time by the Hudson's Bay and Canadian North-West Companies as tallies for skins hartered from the Indians. They are now among the rarest of numismatic curiosities. That which we here reproduce in facsimile was struck in 1854 or 1855 at the suggestion of Mr. McTavish, then in charge of the Albany Port of the company. It bears the coat of arms of that corporation: a shield quartered, with a beaver in each quarter, a fox for the crest, two stags as supporters, and the motto, "Pro Pelle Cutem" ("The skin for the fur"). The legend on the reverse consists of the initials of the company, and letters E M for East Main, the district in which the tokens circulated. The "1/2" stands for the value = half a beaver-skin; there were also eighths, quarters, and full units, and the N.B. is a mistake for MB = "made beaver," signifying the flawless skin of an adult specimen. The water-rat-looking creature in the initial letter of this article is none other than our friend the *Castor Canadensis* seated upon what is supposed to represent his dwelling, and doing duty as the somewhat nebulous coat of arms of the Huron Nation. The last of that mighty tribe has long gone to Great Manitou's happy hunting-grounds, and he has been followed in due course by the last of his hions. And as a companion of these great figures in the story of the North there will appear, at no very distant date, the ghost of the last of the wild beavers.

PERSONAL.—Mr. Swann, the English pharmacist of the rue Castiglione, and the correspondent of THE CHEMIST AND DRUGGIST, represented the profession at the annual banquet of the British Chamber of Commerce in Paris on Monday, March 5. Mr. Swann was one of the first gentlemen with whom the British Ambassador shook hands on arriving at the Hôtel Continental, and he did so most cordially.

CANADIAN CASTOREUM.

THE following figures, which have been courteously supplied to us by Messrs. August Faber & Co., of 60 Mark Lane, E.C.,

show the quantities of castoreum offered at auction in London by the Hudson's Bay Company since 1849, and the range of prices, per lb., realised by the best quality (so-called "firsts") :—

Auction	Lbs. offered	Price	Auction	Lbs. offered	Price	Auction	Lbs. offered	Price	Auction	Lbs. offered	Price
1849, Aug. ..	396	43/	1860, Sept. ..	446	14/6-14/9	1871, Aug. ..	780	11/6	1882, Oct. ..	160	32/
" Dec. ..	1,287	50/-56/	" Dec. ..	4,055	16/6-17/6	" Dec. ..	2,697	19/	" Dec. ..	2,829	31/-36/6
1850, July ..	431	60/-61/	1861, July ..	450	13/6	1872, Aug. ..	481	13/6	1883, Aug. ..	642	38/
" Dec. ..	1,489	58/-60/	" Dec. ..	3,546	15/3-17/3	" Dec. ..	2,560	16/	" Dec. ..	2,400	35/
1851, June ..	162	60/	1862, Aug. ..	443	11/6	1873, Aug. ..	512	14/3	1884, Aug. ..	642	32/
" Dec. ..	1,902	58/-59/	" Dec. ..	2,943	16/	" Dec. ..	2,490	16/	" Dec. ..	1,519	35/
1852, Aug. ..	170	77/	1863, Aug. ..	476	12/	1874, Aug. ..	480	10/	1885, Aug. ..	200	34/6
" Dec. ..	2,204	61/-71/	" Dec. ..	3,448	19/	" Dec. ..	2,793	23/6	" Dec. ..	2,240	36/-39/
1853, Sept. ..	266	60/-61/	1864, Aug. ..	490	12/9	1875, Aug. ..	337	25/3	1886, Jan. ..	217	36/
" Dec. ..	2,341	32/-33/	" Dec. ..	2,510	19/9	" Dec. ..	2,524	—	" Dec. ..	1,442	40/-42/6
1854, Aug. ..	314	44/6	1865, Aug. ..	747	10/3	1876, Aug. ..	253	22/	1887, Dec. ..	2,033	40/6-42/
" Dec. ..	2,085	42/	" Dec. ..	4,165	14/	" Dec. ..	3,900	30/6	1888, Dec. ..	1,488	43/-45/
1855, July ..	716	30/-36/9	1866, Aug. ..	658	9/	1877, Sept. ..	265	—	1889, Dec. ..	1,759	45/6-50/6
" Dec. ..	2,450	38/6-44/6	" Dec. ..	4,332	14/	" Dec. ..	3,148	21/9	1890, Dec. ..	1,845	48/-50/
1856, July ..	339	32/3	1867, Aug. ..	no sale	—	1878, Aug. ..	260	20/	1891, Dec. ..	1,480	64/-70/
" Dec. ..	2,840	30/	" Dec. ..	2,590	32/	" Dec. ..	1,400	21/6	1892, Feb. ..	345	66/6
1857, Aug. ..	549	25/	1868, July ..	645	13/	1879, March ..	800	43/6	" Dec. ..	1,334	99/-107/
" Dec. and			" Dec. ..	2,972	15/6	" Aug. ..	300	30/	1893, April ..	350	114/
Feb. ..	3,530	23/3-24/9	1869, Aug. ..	681	13/6	" Dec. ..	2,640	25/	" Dec. ..	1,085	130/-140/
1858, Sept. ..	573	25/	" Dec. ..	3,621	12/	1880, Sept. ..	333	26/6			
" Dec. ..	3,280	21/-23/	1870 (war),			" Dec. ..	2,500	30/			
1859, Sept. ..	1,319	13/6-13/9	Aug. ..	1,197	6/3	1881, Sept. ..	336	34/			
" Dec. ..	3,316	15/	" Dec. ..	4,320	7/	" Dec. ..	2,950	30/			

* These auctions were partly held in January of the following year, but the entire quantity is here included under December.

The prices are the highest and lowest figures realised by "firsts" of all marks.

Bankruptcy Reports.

Re FRANK PERKINS, 13 James Street, Harrogate, Chemist and Druggist.

THE first meeting of the creditors of this debtor was held at the Official Receiver's office, York, on Monday last. The summary showed unsecured creditors, 1,460*l.* 2*s.* 4*d.*; creditors fully secured, 1,300*l.*; the gross liabilities being 2,879*l.* 16*s.* 2*d.*, and the deficiency 902*l.* 8*s.* 5*d.* The debtor states as his cause of failure excessive amount paid for business, excess of working expenses over profits, competition, and interest on borrowed money. The debtor was adjudicated bankrupt, and the affairs remain in the hands of the Official Receiver.

Re JOHN SWIFT, 46 Marine Parade, Southend-on-Sea, Essex, Druggist.

MR. CECIL MERCER, Official Receiver of the Chelmsford district, has issued a statement showing the position of this estate at the date of the declaration of a first and final dividend, and he also gives notice that he intends to apply to the Board of Trade for his release from the position of trustee. The receipts were as follow:—Stock-in-trade, lease of debtor's shop, and trade fixtures, fittings, and utensils realised 100*l.* (96*l.* estimated by debtor); furniture, 30*l.* 19*s.* 6*d.* (45*l.*); book-debts, 2*l.* 12*s.* 3*d.* (8*l.* 15*s.* 11*d.*); receipts per trading-account, 26*l.* 3*s.*; other receipts, 5*l.*; total, 164*l.* 14*s.* 9*d.* From this had to be deducted, for deposit returned to petitioner, 5*l.*; payments to redeem securities, 4*l.*; costs of executions, 6*l.* 3*s.* 6*d.*; and payments per trading account, 3*l.* 10*s.* 1*d.*; leaving the net realisations, 146*l.* 1*s.* 2*d.* On the other side, 23*l.* 2*s.* was absorbed by court-fees, including petition-stamp, 5*l.* 8*s.*; Board of Trade fees in respect of 32 creditors and 51 debtors, and including stationery, printing, postages, and rooms for meetings of creditors, 6*l.* 6*s.*; 5 per cent. on amount of assets realised, 7*l.* 6*s.* 2*d.*; 2½ per cent. on amount of dividend (83*l.* 12*s.* 11*d.*), 2*l.* 1*s.* 10*d.*; and *ad valorem* duty on audit, &c., 2*l.* Law-costs of petition amounted to 4*l.* 9*s.*; shorthand-writer's charges, 1*l.*; auctioneer's and valuer's charges, 4*l.* 2*s.* 3*d.*; costs of possession, 7*l.* 4*s.* 8*d.*; costs of notices in *Gazette* and local paper, 3*l.* 7*s.*; incidental outlay, 14*s.* 2*d.*; allowance to debtor, 5*l.* 2*s.* 7*d.*; payments to two preferential creditors, 12*l.* 17*s.* 7*d.*; first and final dividend of 3*s.* 6¼*d.* in the pound to 22 unsecured creditors on 469*l.* 11*s.* 8*d.*, 83*s.* 12*s.* 11*d.*; balance, 9*s.* The debtor's estimate of the amount expected to rank for dividend was 499*l.* 3*s.* 4*d.*

Re F. WHITE (LIMITED), 9, Fann Street, Aldersgate Street London.

The following are the principal creditors in this failure reported last week :—

	£	s.	d.
Hayward, Tyler & Co., London	51	10	6
Collins, H. E., Coleford	3,945	0	0
Scott & Co., Deptford	53	4	4
Petty & Sons, Leeds	223	0	0
Emminson, Bros., Manchester	26	5	0
Williams, T., Neath	47	8	1
Rickey & Co., Newcastle-upon-Tyne	100	0	0
Jones, Robert, Pwllheli	20	0	0
Liabilities	4,525	14	8
Assets (after deducting loans on Debenture Bonds, secured on the Assets of the Company) ..	869	1	1

Gazette.

PARTNERSHIPS DISSOLVED.

Douglas, C., Hallas, W., Hallas, J. H., Laycock, Joseph, Laycock, Joshua, and Hinchcliffe, D., under the style of Adamson Douglas, Hallas & Co., Dewsbury, glass-bottle makers, so far as regards W. Hallas and J. H. Hallas.

Hamilton, H., and Sutton, T. S., under the style of Hamilton & Sutton, Chilham and Chartham, Kent, surgeons, apothecaries, and accoucheurs.

Stonehouse, J., and Hammersley, C., under the style of James Stonehouse & Co., Nottingham, drysalts and general wholesale merchants.

Taylor, D., and Taylor, S., under the style of Thomas Taylor & Son, Derby, horse, cattle, and patent-medicine manufacturers.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Eddowes, Walter Dowley, Jun., Stamford, surgeon.

Long, Caleb, Fishponds, Gloucestershire, late oil manufacturer, now out of business.

Maddison, T. Harwood, Sinclair Road, Kensington, W., and Laundry Terrace, Fulham, S.W., surgeon.

ADJUDICATION.

Mitchell, Stephen (late carrying on business as George Mitchell), Leeds, late York, out of business, late oculist and aurist.

DEEDS OF ARRANGEMENT.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Barrett, William (deceased) (by executrix, &c.), late of 129 Manchester Street, Heywood, and Manchester Road, Castleton, near Rochdale, physician and surgeon. Trustee, James J. Cropper, 15 York Street, Heywood, accountant. Dated February 23; filed February 23. Unsecured liabilities, 771*l.* 18*s.* 3*d.*; estimated net assets, 338*l.* 7*s.*

(No amounts given in Schedule of Creditors.)

Veare, Catherine Amella, 9 Devonshire Street, Portland Place, and Riverhead, near Sevenoaks (widow), surgical and medical-home proprietress. Trustee, Thomas W. Gilbert, Devereux Buildings, Devereux Court, Temple (C.A.). Dated, March 5; filed, March 6. Unsecured liabilities, 1,732*l.* 10*s.*; estimated net assets, 1,500*l.* The following are scheduled as creditors:—

	£	s.	d.
Bellord, J. G., London	143	5	3
Buckland, Miss, London	152	16	10
Buckland, Miss, London	23	6	8
Dennis, E., London	17	4	0
Druce & Craddock, London	37	13	0
Elliman & Co., Sevenoaks	155	0	0
Gask, Chas. & Co., London	123	1	10
Hayters, F., near Sevenoaks	76	7	0
Hills Brothers, near Sevenoaks	35	5	0
Pannell, Mrs., London	60	0	0
Redman, R., Manchester	300	0	0
Roberts, James, Riverhead	22	5	11
Russell, G. J., Sevenoaks	24	9	10
Rutland, Duke of, London	250	0	0
Sadler, Adolph, Enes-on-Rhine	28	0	0
Waller, J., Riverhead	31	19	7
Weston, J. O., London	18	5	11
Williams, G., London	20	19	4
Wisdom, J., Chevenny	17	3	4

Reinecke, John (John Joseph Reinecke, trading as), Charlton Street, West Marsh, and 4 Freeman Street, Great Grimsby, manufacturer of medicated drinks and mineral waters. Trustee: Wilton Brooke Stairfoot, near Barnsley. Dated, February 28; filed, March 5. Unsecured liabilities, 2,088*l.* 3*s.* 5*d.*; estimated net assets 597*l.* 18*s.* 8*d.*; creditors fully secured, 1,363*l.* 15*s.* Assignment upon trust, &c., supplemental to Deed of Inspectorship, dated November 25, 1892, and filed November 23, 1892. The following are scheduled as creditors:—

	£	s.	d.
Bottle-seal Company (Limited), London	41	14	8
Brightwell, G. W. & J., Hull	47	5	0
Cresswell, J. J., Grimsby	21	0	0
Field, C. W., Liverpool	43	10	0
Hay, William, Hull	16	6	3
Hellman, J., & Co., Bamberg (Bavaria)	17	7	7
Hill, Thomas, Hull	32	15	0
Hobbs & Son, Maidstone	86	19	9
Lumb, J., & Co., Castleford	249	1	7
Newton, Samuel, Grimsby (Kent)	30	0	0
Oakden & Sharpe, Grimsby	130	0	0
Potter & Clarke, London	47	7	6
Powell, W., & Son, Bristol	37	10	2
Robinson & Emmerson, Grimsby	91	0	0
Rylands, Dan. (Limited), Barnsley	1,004	10	8
Sampson, John, Grimsby	16	13	0
Wood & Co., Sheffield	83	0	0

Maurice, Albert, 11 St. John Street, Chester; Broad Street, Newtown; Severn Street, Welshpool; Bailey Street, Oswestry; and the Lamb Hotel, Naotwich, dental surgeon. Trustee, Henry Small, Westminster Buildings, Chester, accountant. Dated February 21; filed February 28. Unsecured liabilities, 817*l.* 19*s.*; estimated net assets, 555*l.* 16*s.* 5*d.*; creditors fully secured, 197*l.* 3*s.* 7*d.* Deed of arrangement with a view to payment of creditors in full by 8 equal instalments at 8, 12, 16, 20, 24, 28, 32, and 36 months from February 21, secured by assignment upon trust until default.

(No amounts given in Schedule.)

THE GRUB AND ITS GRUB.

By B. S. PROCTOR, F.I.C.

PHARMACISTS every now and then meet with unexpected live-stock—mites in their cantharides, worms in the rhubarb, or beetles who prefer jalap—but it is less common to find an animal addicted to a poisonous metal. The object—the pitiabie object—which is the subject of the present note is a cream-coloured grub living in sugar of lead. It measures about half an inch long by little more than one-sixteenth in diameter, its head suggestive of shellac, its body of cold-cream, and its legs like so many Whigs and Tories going off in pairs for a lazy time, while its tail drags on like the end of the Session.

Life in a jar of sugar of lead does not seem promising of any pleasant variety; perhaps the creature has been misled by the Latin label, and mistaken plumbi acet. for some other kind of plum better suited to a caterpillar.

Judging from the fact that the small circle of friends to whom this visitor has been introduced, and all of whom have had no previous acquaintance with him, it may be concluded that he is not one of the common objects of the drug-shop. Now that he is introduced to the pharmaceutical public, it may be interesting to know if other pharmacists have had any similar intruders. Various specimens, some six or eight, have been noticed in this present experience, and one of them has been held captive for three or four weeks, confined in a 3-oz. wide-mouthed bottle, with neither victuals nor drink, except a small sprinkle of sugar of lead. He has not been seen to eat of the substance nor drink of its water of crystallisation, but he has had nothing else; and if sugar of lead really is his food, we can only conclude by saying Singular grub!

Business Changes.

MR. ALEXANDER A. ADAM, A.P.S., has commenced a chemist's business at Alyth, N.B.

THE chemist's business of Mr. Harold Mitchell, of High Street, Merton, has been sold to Mr. F. T. Bowen.

MESSRS. S. MAW, SON & THOMPSON have completed the refitting of Huggins's pharmacy, 199 Strand, W.C., which is now owned by Mr. John E. Graves.

MR. FRANK ISLIP, for some time with Mr. Phillips, Cromwell Road, South Kensington, is now representing Messrs. Warrick Brothers in the West-end.

THE business lately carried on by Mr. Llewellyn at No. 4 Victoria Terrace, West Brighton, has been taken over by Mr. Nevill, from Savory & Moore's.

MR. J. E. JEWELL has opened a large and handsome drug-store at Church Street, Upper Norwood. The fittings are by Messrs. S. Maw, Son & Thompson.

MESSRS. WILLIAM FORBES & Co, wholesale druggists, of Nottingham, have removed from Park Street to Clumber Buildings, Parliament Street, in that town.

MR. THOMAS STEPHENSON, F.C.S., has left Messrs. Kemp & Co.'s Byculla branch to assist in the management of the drug business and laboratories of Messrs. Phillips & Co. (Limited) Bombay.

MR. WM. HOWORTH DARLING has taken over the business, and all liabilities, hitherto carried on by his father, Mr. William Darling, at 126 Oxford Street, Manchester, as a homœopathic and pharmaceutical chemist.

THE freehold premises with goodwill and possession of the old-established drug-business in the occupation of Mr. Joseph E. Buck, 7 High Street, Haverhill, were sold by public auction on February 16, Mr. W. Mason, of Haverhill, being the purchaser at 800*l.* for the above and 77*l.* 11*s.* 9*d.* besides for domestic and trade fixtures.

NEW BOOKS.

THE following new books of interest to readers of THE CHEMIST AND DRUGGIST have been published recently. Mention of a publication in this list does not preclude a subsequent review of any book.

Ball, C. B.—*The Rectum and Anus: their Diseases and Treatment.* With illus. and col. plates. Second edition. 12mo. Pp. 430. 9s. (Cassell.)

Berly, J. A.—*The Universal Electrical Directory.* Thirteenth annual publication, thoroughly revised. 4s. (Alabaster & Co.)

Brodie, J., and Gresswell, A.—*The Bovine Prescriber: drawn up for Veterinary Practitioners and Students.* Second edition, revised and enlarged. Post 8vo. Pp. 108. 2s. 6d. (Baillière.)

Clowes, F., and Coleman, J. B.—*Quantitative Chemical Analysis: adapted for use in the Laboratories of Colleges and Schools.* Second edition. Post 8vo. Pp. 472. 8s. 6d. (Churchill.)

Cunningham, D. J.—*Manual of Practical Anatomy.* Vol. 2. Thorax, Head, and Neck. Illustrated. Post 8vo. Pp. 646. 12s. 6d. (Pentland.)

Dalby, Sir W. B., Dr.—*Chesterfield's Letters to his Son on Medicine as a Career.* Crown 8vo. 1s., sewed. (Longmans.)

Gibbins, H. de B., M.A.—*The Economics of Commerce.* (Methuen's Commercial Series.) Small 8vo. Cloth. Pp. 94. 1s. 6d. (Methuen & Co.)

Hartridge, G.—*The Ophthalmoscope: a Manual for Students.* Illus. Second edition. Crown 8vo. Pp. 156. 4s. 6d. (Churchill.)

Jordan, W., and Gore-Browne, F.—*Handy-book on Joint-stock Companies.* Seventeenth edition. (Jordan & Sons.)

Nairne, A. K.—*The Flowering Plants of Western India.* Crown 8vo. 7s. 6d. net. (W. H. Allen.)

Norton, A. T.—*Clinical Lectures on Recent Surgery.* Crown 8vo. 3s. (Baillière.)

Oliver, J. W.—*The Student's Introductory Handbook of Systematic Botany.* Post 8vo. Pp. 376. 4s. 6d. Blackie's Science Text-books Series. (Blackie.)

Ormerod, Eleanor.—*Report of Observations of Injurious Insects and Common Farm Pests during the Year 1893, and Methods of Prevention and Remedy.* Royal 8vo. Pp. 152. 1s. 6d. (Simpkin.)

Reynolds, J. J.—*Notes on Diseases of Women.* Specially designed to assist the student in preparing for examination. Fourth edition, enlarged and revised. Fcap 8vo. Pp. 176. 3s. 6d. (Churchill.)

Richter, Dr. M. M.—*Die Lehre von der Wellenberuhigung.* 8vo. Paper covers. Pp. viii. + 99. 2 marks. [R. Oppenheim (Gustav Schmidt), Berlin.]

Smith, J. W.—*The Law of Bills, Cheques, Notes, and I.O.U.'s.* Wilson's Legal Handy-books Series. Fifty-eighth thousand. Small 8vo. Paper covers. Pp. 193. 1s. 6d. (Effingham, Wilson & Co.)

Sworder, H.—*Popular Information concerning Infectious Diseases.* Post 8vo. Pp. 80. 2s. 6d. (Renshaw.)

Taylor, A. S.—*The Principles and Practice of Medical Jurisprudence.* Fourth edition. Edited by Thomas Stevenson. 2 vols. 8vo. Pp. 1,430. 31s. 6d. (Churchill.)

Thorne, W. B.—*The Open-air Treatment of Phthisis as practised at Falkenstein in the Teunus Mountains, Germany.* Crown 8vo. Pp. 31. Sewed 6d. (Churchill.)

Thorpe, T. E.—*Essays in Historical Chemistry.* Post 8vo. Pp. 378. 8s. 6d. net. (Macmillan.)

* Published in Bombay.

New Companies.

OIL AND COLOUR COMPANY (LIMITED).—Capital, 30,000l., in 1l. shares. Objects: To carry on the business of oil, colour and hardware merchants, drysalts, &c. The first subscribers (who take one share each) are:—B. Nichols, 84 Great Portland Street, W., gentleman; F. Kennedy, 26 Eardley Crescent, S.W., student of medicine; J. D. Cahill, 5 Woodland Street, N.E.; S. S. Allin, Bedford Park, N., manufacturer; T. R. Best, 16 Bartlett's Buildings, E.C., clerk; V. Nisbet, 89 Tollington Park, N., manufacturer; R. S. Moseley, 3 Hanover Court, E.C., merchant. The first directors are to be appointed by the subscribers; qualification and remuneration not specified.

REYNOLDS' GOUT SPECIFIC COMPANY (LIMITED).—Capital 10,000l., in 1l. shares. Objects: To acquire the business of P. W. Litchfield, and to carry on the business of manufacturers and vendors of drugs and patent-medicines, chemists' druggists, merchants, &c. The first subscribers (who take one share each) are:—J. A. Cooling, 47 Fleet Street, E.C., fine-art dealer; F. Kendall, 18 Princes Row, S.W., optician; J. Aitchison, Colyton Road, S.E., optician;

S. Hill, 61 Greenwood Road, Dalston, N.E., traveller; W. Badger, 192 Broadhurst Gardens, N.W., artist-colour manufacturer; W. A. Wragge, 78 Ballater Road, Brixton, engraver; E. J. Webber, 89 Brighton Road, N., accountant. The first directors are: T. Richardson, V. C. Howson, and J. A. Cooling. Qualification, 200l.; qualification to be determined in general meeting. Registered office, 47 Fleet Street, London.

DEE OIL COMPANY, LIMITED.—Capital, 65,000l., in 1l. shares. Object: To take over as a going concern the undertaking of the Dee Oil Company, Limited (incorporated in 1888), on the footing of a scheme of arrangement sanctioned by order of the Chancery Division bearing date February 14, 1894, and to carry on business as oil, wax, paraffin, and candle manufacturers and merchants, chemists and druggists, &c. The first subscribers (who take one share each) are:—E. T. Lambert, Telham Court, Battle, Sussex; C. Lambert, Tangle, Guildford; E. P. Parsons, Melbourne House, Blackheath; P. R. Parsons, Woodcroft, Grove Park, Lee; H. S. Cottrell, Ellesmere Park, Eccles, near Manchester; J. Lawson, Highfield, Sharples, near Bootle; A. McPherson, Westwood Parsonage Road, Withington, Manchester; R. N. Carter, 16 Kennedy Street, Manchester; W. Marsden, 89 Every Street, Manchester. There shall not be less than three nor more than five directors. The first are L. Voisey, E. T. Lambert, and S. Smith. Qualification, 500l. Remuneration to be fixed by the company.

TRADE-MARKS APPLIED FOR.

ANY person who has good grounds of objection to the registration of any of the following marks should at once communicate with Sir Reader Laok, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London. W.C.

(From the "Trade Marks Journal," February 23, 1894.)

"CIRCUS"; for bird-medicine, cattle-blisters, sheep-dips, disinfecting-soap, &c. By Lever Brothers (Limited), Port Sunlight, near Birkenhead. 176,583.

"EPSERI"; for disinfecting-materials. By Eleanor M. Woodthorpe and others (trading as Woodthorpe & Co.), 42 Commercial Road, Portsmouth. 177,401.

"MARKASOL"; for a pharmaceutical product. By Farb. vormals F. Bayer & Co., Konigstrasse 217, Elberfeld, Germany. 177,044.

"C. WOODCOCK," as signature; for a medicine named "Heartine," for nervousness, indigestion, &c. By C. Woodcock, 190 High Street, Lincoln. 177,128.

"YANATAS"; for a medicine for human use. By the Yanatas Company, St. George's House, 6 Eastcheap, E.C. 177,662.

"PLUM-PUDDING"; for a medicine for gout and rheumatism. By S. Prince, Eversfield, St. Ann's, Lewes. 177,776.

"CURLINE," and device of girl's head, in hood, surrounded by twigs; for a hair-curling fluid. By S. Conrath (trading as Sophia Hood), 28 Annandale Road, Chiswick, Middlesex. The essential particular is the device. 175,428.

"IBIS' TOOTH-POWDER," device of ship, and wording, on label; for a tooth-powder. By F. E. Hodgson (trading as the Antexema Company), 83 Castle Road, London, N.W. The essential particulars are the word "Ibis" and the device. 177,555.

Device of squirrel nibbling nut; for perfumery and toilet-articles. By D. C. Keeling & Co., 63 and 63 Blundell Street, Liverpool. 178,050.

DEATHS.

CORNFORTH.—On February 21, Edwin Cornforth, chemist and druggist, of Aston. Aged 59.

JESSOP.—The death of Mr. J. M. Jessop, of Banbury, occurred last week with painful suddenness. The deceased gentleman was taken unwell suddenly, and two doctors were called to see him, but he died within half an hour of heart disease. For many years he had been dispenser for Mr. Pemberton, and was well known and much respected in the neighbourhood. He was 57 years of age.

How to Advertise Liver-pills.

WE have received close upon three hundred replies to our request for advice how Mr. Blank should advertise his liver-pills in the local papers, and it will be astonishing if, from the selection from these which we propose to publish, those chemists who wish to bring their medicines before their respective publics do not find some ideas to suit them.

A still more popular feature among the proposed advertisements is the adoption of *Punch's* familiar question and answer: "Is life worth living?"—"It depends on the liver." Twelve correspondents send forms of advertisement with this key-note. Ten other scribes head their announcements with the abrupt inquiry, "How's your liver?" Four of

YOUR WATCH IS GOING SLOW.
A SLUGGISH LIVER
IS LIKE A SLOW GOING WATCH,
BOTH REQUIRE REGULATING.
WE CAN MAKE YOUR LIVER KEEP TIME.

**BLANK'S
LIVER
REGULATORS**

WILL DO THIS — TRY THEM
(IN GOVERNMENT STAMPED BOXES.)
**BLANK,
THE CHEMIST
OF DULLTOWN**
MAKES THEM. — GIVE HIM A CALL.

(1) J. VERNON MITCHELL, London.

BLANK'S

Of all the Pills toward of all's
The human frame is heir to.
BLANK'S
Smooth-of-action
Liver Pills

No others
Can compare to.
2s. 6d. 4s. per doz. 4s. doz. in labels.
BLANK'S Chemist.
Carlton St., Clearemont Square
DULLTOWN

(2) C. LE SUEUR, Jersey.

ATTENTION!!!


**BLANK'S
SPHERITES**

+ OR +
**LIVER -
LEVERS**

RESTORE LOST HEALTH
RENEW VIGOUR, LIFE
ENERGY & POWER.
REAL FORCES FOR GOOD
A BOOK OF
INESTIMABLE WORTH
A BLANK CHEMIST
BLANK ST. DULLTOWN.

(3) H. G. H.

NEW LIVERS FOR OLD.

PER  BOX

-HAVE YOU A LIVER?-
OF COURSE YOU HAVE, BUT HOW
MANY PEOPLE KNOW IT
YE UNFORTUNATES WHO ARE BADLY
AWARE OF THIS FACT, AND WHO DESIRE
TO LIVE IN BLISSFUL IGNORANCE OF
ITS EXISTENCE, SHOULD TRY **BLANK'S
LIVER PILLS**, A MOST WONDERFUL
REMEDY FOR ALL LIVER COMPLAINTS.
-ONCE USED, SELDOM USED-
BECAUSE THEIR EFFICACY REQUIRES CON-
-TINUED USE UNLESS NECESSARY.
PREPARED ONLY BY
JOHN BLANK, CHEMIST, DULLTOWN.

(4) D. MACDOUGALL, Inverness.

Among the goodly pile before us there is a grand collection of ideas—comic, serious, artistic, literary, poetic, didactic, antiquarian, and up-to-date. We have novelties in titles for the pills, new and old ways of recommending them, a great quantity of physiological lore condensed into small compass, and plenty of ingenious catch-lines for the advertisements.

these conscientiously acknowledge their indebtedness to the *Private Secretary* for this quotation.

We do not by any means say that one or other of these introductions may not be well adapted for the advertisement in question, and we may print some of the specimens so headed. But we shall be disposed, other things being

"YOU WRECK A"
CONSTITUTION
if you do not take
BLANK'S "EUREKA" PILLS,
Suitable for all
KIDNEY AND LIVER COMPLAINTS.

See that you get the
"EUREKA" PILLS.
Sold only by
BLANK & CO.,
CHEMISTS,
DULLTOWN,
In Boxes at 7½d., 1s., and
2s. 6d. (equal to three 1s. Boxes).

(5) F. B. ELWELL, Southsea.

FRESH.

That is the sign of health—fresh, cheery, brimming over with energy and good spirits of a morning as you come downstairs, after a nice wash and brush-up, And how merrily you trot along to business! You almost jump and run, you feel so well.

WE ALL WISH THAT.

Ah, yes; but if you have bilious headaches, foul stomach, no appetite, bow very, very different is your condition! What misery!

GOOD NEWS!

BLANK'S
PINK-COATED LIVER PILLS
will positively set you right—not may, but will.

1s. 1½d. a box only from
BLANK, CHEMIST, DULLTOWN.

(6) J. A. ROBERTSON, York.

W. H. BLANK,
CHEMIST,

Begs to inform the inhabitants of Dulltown and district that there is only one thing in the world that can beat his Cough-syrup, and that is his

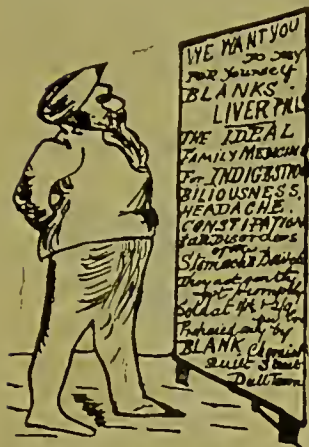
"UNIVERSAL"
LIVER-PILLS,

Price 1s. 1½d. per box.

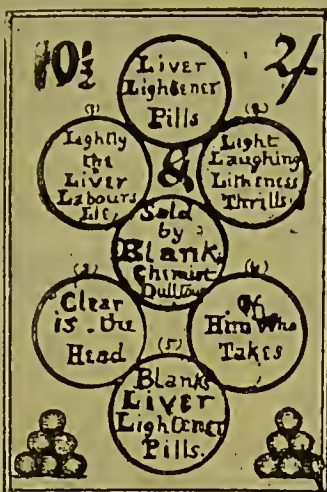
(7) H. B. SHARMAN, Bath.

We have, too, in our collection a fair percentage of old acquaintances. Eight competitors plant on us that venerable chestnut about pills which are mild as a pet lamb, searching as a small-tooth comb, don't go fooling about, but attend strictly to business, and so on. There is reason to believe that this time-honoured joke came over with the Normans, and we are glad to see it is not worn out, but we really cannot give it space this journey.

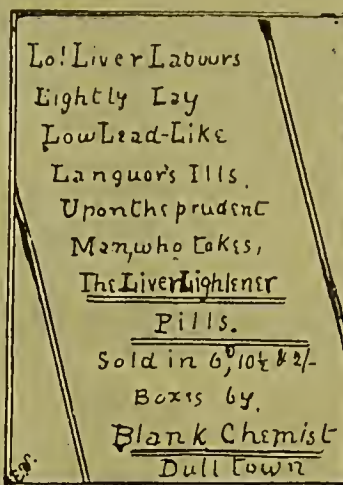
equal, to give preference to those which strike us as more original. We may, however, glean at once from those we have just alluded to the titles other than that of plain "liver-pills" which we find adopted. These are "pilula hepar," "Blank's pilliver," "hepatie perles," hepatic pilules," "liver-granules," "liver-assistance pills," "liver-pellets," "liver-soothers," "little laxative and liver pills," "palatable pills," and "laxative cascara liver-pills."



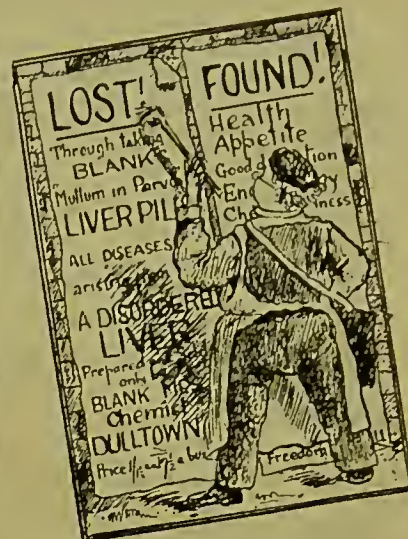
(8) G. A. HEBBLETHWAITE, Driffield.



(9) E. S. VERTUE, Southampton.



(10) E. S. VERTUE, Southampton.



(11) A. W. NUNN, Sydenham.

HIS SUPPER

did it. Yes, he meant to enjoy himself; but you should have seen him next day. Sick-headache, Bilious, feeling all the symptoms he ever heard of. Thought he was going to die, till a friend dropped in and gave him a dose of BLANK'S LIVER-PILLS, and now you can scarcely make him believe he has ever been ill.

BLANK'S LIVER-PILLS

do not cure every ailment, but they will soon rectify any complaint arising from a disordered state of the Liver.

Boxes, 1s. 1½d. and 2s. 9d., at

BLANK'S, DULLTOWN.
(12) ERICA.

BAD MONEY.

There is no doubt, since Jubilee year, bad-coin makers have been very busy, and the perfection to which they have brought their imitations makes it difficult for even smart folks to tell good coins from bad. The same spurious imitation is going on in the pill-trade. Impudent charlatans are offering to the public pills which for mere appearance are unsurpassed, but they are absolutely worthless—indeed, in many cases positively injurious—to those who swallow them.

BLANK'S LIVER PILLS are a genuine remedy, composed of best drugs, skilfully proportioned. They may be relied on in all cases of disordered liver, biliousness, &c., &c.

BLANK'S LIVER-PILLS

are sold only in boxes of 40, price 1s. (duty included), by

BLANK,

CHEMIST,

HIGH STREET, DULLTOWN.

(13) CHAS. W. DOWSWELL,
High Wycombe.

The prevalent sources of Indigestion, Dyspepsia, mental depression, loss of energy, melancholic and suicidal tendencies are

TORPID SLUGGISH CONGESTED **LIVERS** ATONIC INDURATED ENLARGED.

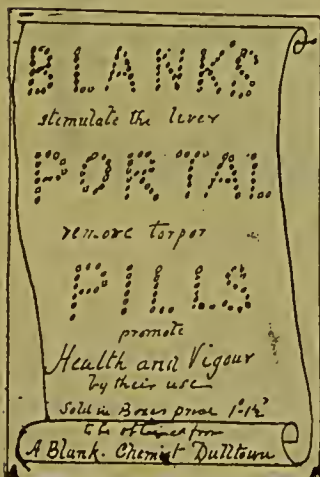
All these may be successfully treated, health and happiness restored, and life made roseate by an occasional dose of

BLANK'S LIVER-PILLS 1/1½ PER BOX

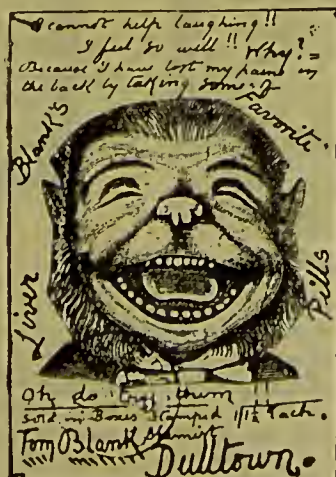
Blank, Chemist,

Dulltown.

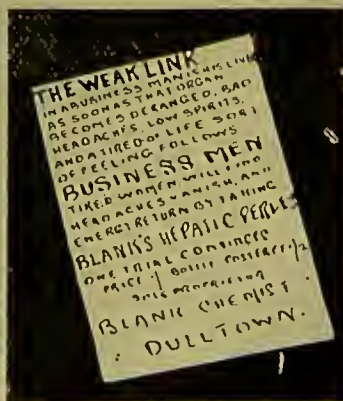
(14) R. BROADHEAD, Batley.



(15) J. A. WALSH, Dublin.



(16) LEVICO.



(17) A. A. KNIGHT, Allerton.

After the Ball is over or any other little dissipation, a corrective is frequently required.

This will be found in Blank's Little Liver Pillets, not a secret or quack remedy, the ingredients used being well known and frequently prescribed by the Medical Faculty, but the combination is new.

Price 1/6 per box.



(18) WORM CAKE.

It would be a heavy task to comment on each advertisement design here printed in detail. We may have something more to say about them before we have done with the subject, but it should be at once explained that there is no significance in the circumstance that some are printed on a larger scale than others. These were the first few set up, and the

the most appropriate concomitant with the treatment of their unhappy case. Besides, it must be remembered that these advertisements are supposed to be printed in a local newspaper and to be issued by a chemist in the town. That gentleman must always consider how his general business will be affected by his advertisements. It will be hardly to

Your favourite author?

"DICKENS."

Your favourite authoress?

"EDNA LYALL."

Your favourite hero in fiction?

"DONOVAN."

Your favourite heroine in fiction?

"JESS."

Your favourite pill?

BLANK'S UNIVERSAL,

FOR ALL

LIVER-COMPLAINTS.

Price 1s. 1½d. per box.

(19) H. B. SHARMAN, Bath.

**A HIT! A HIT!!
A PALPABLE HIT!!!**

LIVER-LIVENERS.

A TORPID LIVER

is like a dirty sponge. The proper way to secure

A HEALTHY LIVER

is to free it from all foul matter by using

**A SAFE, SPEEDY, AND EFFICIENT
CHOLAGOGUE.**

LIVER-LIVENERS,

1s. PER BOX.

MR. BLANK,

CHEMIST,

DULLTOWN.

(20) H. ASPINALL, Newport, Mon.

It is quite possible that in these hard times you really

**CAN'T AFFORD
A CARRIAGE,**

but it is possible to do without one, if you keep your liver and stomach in healthy going order by taking

**BLANK'S
LITTLE LIVER-LIFTERS,**
which you

CAN AFFORD

because they are only 1s. a box at the Pharmacy of

**BLANK, CHEMIST,
DULLTOWN.**

(21) F. BATES, Slaithwaite.

size indicated in the conditions—namely, 3 inches by 2 inches—was then adopted. It was soon found, however, that to give anything like an adequate representation of the excellent variety of ideas in the competition in anything like reasonable limits, a smaller scale would have to be adopted. Hence the variation. The apparent advantage

his advantage to acquire a reputation for levity. The public reasonably expect him to take his business at all events with all seriousness. Can anybody think for a moment, for example, that the advertisement No. 16 will enhance the reputation of any chemist and druggist?

One of the best advertisements of pills that was ever

**IT'S A
SIN**
TO BE SICK. WHOSE SIN?
YOURS IF YOU STAY SICK. IF
YOU'VE BEEN LIVING FOR MONTHS
IN A CONDITION OF MISERY, WITH
DAYS OF HEADACHES, LOW SPIRITS, AND
THAT TIRED-OF-LIFE SORT OF FEELING
WITHOUT TRYING
BLANK'S HEPATIC PERLES
THIS IS ALL THE BLACKER
ONE BOTTLE WILL SET YOU ALL
RIGHT.
PRICE 1/- BOTTLE
PREPARED ONLY BY
BLANK, CHEMIST, DULLTOWN



(22) A. A. KNIGHT, Allerton.

**SPEAKING OF
SICKNESS—**
WHEN IT IS SERIOUS OF
COURSE YOU CALL A DOCTOR.
BUT WHEN YOUR LIVER
IS OUT OF ORDER YOU
JUST TAKE A FEW DOSES OF
**BLANK'S
HEPATIC PERLES**
THEY STIMULATE THE
LIVER AND FREEDOM
STOMACH FROM FULS
WITHOUT ANY UNPLEASANT
EFFECTS.
**THAT'S
A FACT**
BUSINESS MEN WHO ARE
CONFINED IN THEIR OFFICE
ALL THE WEEK RESORT TO
**BLANK'S
HEPATIC PERLES**
AS THE REMEDY FOR
A TORPID LIVER.
PRICE 1/- BOTTLE
BLANK, CHEMIST, DULLTOWN



(23) A. A. KNIGHT, Allerton.

YOU MAY BE **A GOOD LIVER**
AND YET HAVE
A BAD LIVER
IF YOUR LIVER IS TORN, LAX, AND
REQUIRES STIMULATING
**BLANK'S
LIVER
PERSUADERS**
WILL CURE YOU.
ACTION:—PERSUASIVE, NOT FORCEFUL.
IF YOU HAVE **A BAD LIVER**
GET MY **PERSUADERS** & YOU WILL BE
A GOOD LIVER.
BLANK, CHEMIST, DULLTOWN
SUPPLIES THEM IN ONE SHILLING BOXES BY POST

(24) A. FELTHOUSE,
St. Peter's Park, W.

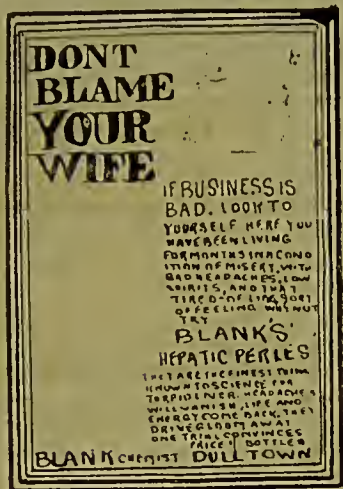
given to the larger ones, and to some of those in type, over others which have been simply facsimiled from the original postcards, will be duly considered when we come to the task of selecting the most effective.

We are inclined to think that the tendency to be comic, to attract attention by mere burlesque, is carried too far by the majority of our competitors. It must strike most readers, we presume, and particularly those to whom an advertisement for liver-pills should be directly useful, that jocularity is not

published (in our opinion) was that one of Holloway's, familiar enough a generation ago, which simply gave an alphabetical list of diseases which his medicine would cure. The advertisement was adapted to every comprehension. Sufferers put their finger down the list, and when they came to the complaint with which they were afflicted, became settled in their minds. They found that their case was provided for, and they went and bought their pills. There was just as much mental exertion put forth in arriving at that

conclusion as the average mortal of that period was capable of. The Education Act has been introduced since then, and perhaps a similar advertisement nowadays would have little or no effect. But at that time the Professor did boom the pill business.

Many of the ideas conveyed in this collection may be useful for advertising other goods, even though they may not be deemed particularly suitable for liver-pills; so that



(25) A. A. KNIGHT, Allerton.

the above remarks must not be taken to define too closely our views as to the merits of the designs sent in. For instance, as a general rule, we would recommend an illustration in an advertisement; but we like it to illustrate something. Even the grinner in No. 16 may come in useful in some kinds of advertisements—an entertainment, for instance, or perhaps a whisky or a Christmas-hamper announcement. The illustrations in 4, 22, 23, and 25 are appropriate and useful. The style adopted in 1 and 17 would be telling, especially if inserted among a number of

DO YOU GO TO SLEEP IN CHURCH?

MR. BLANK, by careful investigation, has placed beyond doubt the fact that a very potent cause of this distressing complaint is a disordered Liver.

To meet this, and to relieve the following symptoms—viz. :—

**HEADACHE,
CONSTIPATION,
LOSS OF APPETITE,
NAUSEA, &c.,**

Mr. BLANK has prepared a "Special Liver-pill," from an entirely new and original formula, which he recommends with the utmost confidence.

Sold in Boxes, at 1s. 1½d. & 2s. 9d. each.

Mr. BLANK, CHEMIST, DULTOWN.

(26) H. E. BOWRON, Liverpool.

"solid" advertisement. We had not noticed at first that No. 2 was poetry, or should have reserved that to come in with others of the same kidney. Alliteration's artful aid does not help us much to construe the next poetic announcement—No. 10. The pun at the head of No. 5 can hardly be passed over without a word of rebuke, and the attempt to hit two birds with one stone in No. 7 interferes with the aim. The "favourite" lay is a good notion in No. 19, but the abuse of rival pills in No. 13 does not read prettily.

LONDON DRUG STATISTICS.

THE following figures refer to the number of packages of drugs in stock at the London public warehouses on February 23, 1894 and 1893, and to the imports and deliveries into and from the same warehouses during the months of January and February of the last three years :—

		Stocks		Imports			Deliveries		
		1894	1893	1894	1893	1892	1894	1893	1892
Aloes	.. c.	6,119	5,753	494	567	637	601	617	806
	g.	3,144	835	63	198	—	181	164	—
Arrowroot	br.	8,560	7,220	4,229	4,932	3,781	3,158	3,009	2,704
	bx. & tn.	1,142	437	824	275	262	605	271	773
Balsams	.. ck.	1,343	1,374	32	171	237	587	166	200
Borax	.. p.	5	5	—	—	—	—	256	—
Calumba	.. bg.	1,596	294	162	234	31	528	440	106
Camphor	.. p.	5,388	3,018	3,420	1,335	2,237	2,915	1,044	1,888
Cardamoms	.. c.	844	536	638	315	484	375	312	308
Cinchona bark :—									
S. Am.	.. c.	52	56	—	—	—	—	—	1
	b.	22,791	23,037	1,268	1,537	2,738	1,670	1,398	2,481
E. Ind., Ceylon, and Java	c.	113	147	21	30	—	13	26	22
	b.	14,340	18,653	2,735	7,970	6,224	2,886	5,055	5,927
Total	..	37,296	41,953	4,024	9,537	8,962	4,569	6,479	8,431
Cochineal	.. bg.	2,761	3,078	671	409	394	581	511	541
Coc. Ind.	.. bg.	595	620	125	—	—	88	67	56
Cream of Tartar	ck.	26	11	18	1	—	18	1	—
Cubebs	.. bg.	531	435	228	216	24	67	100	49
Dragon's Blood	c.	103	103	33	4	45	27	19	40
Galls, China, &c.	c.	619	625	310	489	844	129	383	572
Turkey, &c.	s.	2,528	1,424	258	90	545	321	903	611
Gums :—									
Ammoniacum	p.	98	144	20	3	32	7	5	44
Animi & Copal	p.	9,938	11,054	3,669	3,397	4,594	3,684	2,279	2,928
Acacia	.. p.	14,391	12,000	4,401	3,331	3,272	3,599	3,471	3,607
Asafoetida	p.	358	85	398	197	73	223	193	143
Benzoin	.. p.	2,994	2,088	446	446	249	503	462	660
Damar	.. p.	3,323	4,143	442	1,185	859	754	624	631
Galbanum	p.	15	31	—	—	—	—	—	5
Gamboge	p.	190	104	74	14	59	84	67	43
Guaiaecum	p.	186	219	—	38	79	6	14	8
Kino	.. p.	3	2	2	—	2	3	—	7
Kowrie	.. t.	1,954	779	529	205	643	508	432	626
Mastic	.. p.	22	23	7	12	—	7	4	3
Myrrh	.. p.	339	309	120	147	14	116	57	101
Olibanum	p.	3,553	2,811	1,995	1,277	1,408	1,140	796	1,258
Sandarach	p.	1,043	898	240	143	395	145	194	169
Tragacanth	p.	2,790	605	1,888	422	1,108	934	615	1,724
Ipecacuanha—									
Brazilian	b.	464	643	49	224	95	261	232	290
Colombian	p.	138	52	—	—	—	42	—	—
Jalap	.. b.	162	83	32	62	53	21	32	33
Nitrate of Soda	t.	1,417	1,337	1,347	2,212	438	2,130	1,653	2,607
Nux Vomica	p.	889	592	424	124	86	92	137	60
Oils, Castor	ck.	110	73	31	80	105	101	142	79
	c.	1,618	1,620	717	481	1,254	567	561	1,010
Palm	.. t.	10	10	17	6	23	12	5	9
Cocunut	t.	1,023	1,038	692	886	128	375	591	885
Olive	.. ck., &c.	433	831	408	515	250	418	211	412
Rhubarb	.. chests	740	867	55	97	177	244	237	212
Safflower	.. b., &c.	108	37	8	—	1	9	21	65
Saltpetre	.. t.	73	1,751	144	751	598	433	753	599
Sarsaparilla	b.	353	326	174	132	201	230	271	196
Scenna	.. b., &c.	3,440	1,832	307	967	467	892	616	599
Shellac, Orange	c.	17,232	19,971	4,633	4,310	6,350	6,751	4,633	3,671
Garnet	.. c.	2,067	3,036	250	725	3,279	2,043	1,493	1,108
Button	.. c.	3,581	2,378	1,630	723	1,212	1,425	1,776	1,319
Total	c.	22,830	25,445	6,513	5,763	10,841	10,219	7,902	6,098
Star-anise	.. c.	600	517	—	423	10	13	145	—
Turmeric, Bengal	t.	160	93	24	69	5	13	37	59
Madras, Cochin	t.	221	165	45	59	99	70	57	13
Total	t.	381	258	69	128	104	83	94	72
Vermillion	.. c.	48	77	10	10	37	8	1	15
Wax (Bees')	p.	713	528	271	98	143	350	527	420
	ck., &c.	850	1,587	329	337	264	533	341	289
Wax (Japan)	c.	634	1,130	113	850	400	315	145	95

Quinine in stock on February 23, 3,207,728 oz.; on January 31, 3,217,368 oz.

c=cases, b=bales, p=packages, t=tons, tn=tins, s=sack, lr=barrels, bx=boxes, g=gourds, ck=casks, oz=ounces (avoirdupois), bg=bags. "Quinine" refers to the sulphate of salt only.

Trade Notes.

MESSRS. HORA & Co., of the Minories, send us a sample box of their seidlitz powders to show the neat style in which they are packed. They guarantee to use the best chemicals and to give exact Pharmacopœia weights.

THE *Westminster Budget* of February 16 publishes a highly commendatory note on Cullwick's skin ointment (made by Mr. W. Martin, chemist, 112 High Street, Southampton) as a remedy for eczema, from one of its contributors.

MESSRS. SANTI DE PASQUALE & FIGLI, Messina, Italy, distillers of essential oils, have from March 1 withdrawn all their other agencies in favour of Messrs. J. W. Drysdale & Co., 8 Creechurch Lane, London, E.C., who will act in future as their sole wholesale agents and consignees for the United Kingdom.

MR. HICKISSON, the proprietor of the Crystal Palace Bond's marking-ink, now gives with each dozen bottles a dummy bottle mounted on a little show-card, which exhibits the article and takes up but little space. The show-card announces that with each bottle is enclosed a voucher, entitling the purchaser to a rubber-stamp.

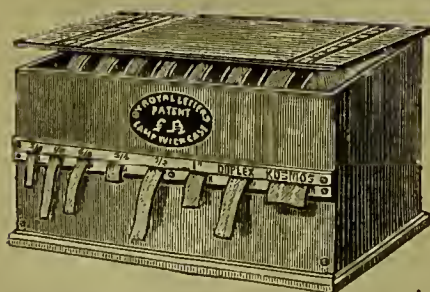
WE have examined and tested samples of gelatines manufactured by Messrs. Astley Cooper & Co., manufacturing chemists, Leeds. These are evidently of extreme purity, and well suited for confectionery, photographic, and chemical purposes generally. The firm also manufacture from these gelatines solid orange and lemon-flavoured jellies, which are supplied in boxes, and yield table jellies of excellent quality.

THE report of Spratt's Patent (Limited) for the past year states that the net profit amounted to 26,132*l.*, out of which 7,500*l.* has been distributed as interim dividend. The directors recommend a dividend of 5 per cent. (making 10 per cent. for the year), adding 9,000*l.* to a special reserve fund, and carrying forward 2,132*l.* The present premises, it is said, are becoming inadequate, and it is proposed to build a new factory at Poplar.

MESSRS. BARCLAY & SONS, of 95 Farringdon Street, have just published a "Practical Photography for Amateurs" which our expert says is complete, practical, and well up to date. It deals with the choice of apparatus, chemicals, development, the various printings, hand cameras, and all other details of the art; and in an appendix is added a valuable collection of formulæ for developers suited to all the leading makes of dry plates.

WE have received samples of syphon mineral waters from the Bangor City Mineral Water Company. They make a special claim in regard to the high purity of the water used and of the cleansing of their syphons, Mr. Pocock, the proprietor of the business, having invented and patented a special syphon-cleaner for removing dirt from the heads of syphons. This company supplies the alkaline waters of pharmacopœial strength when ordered. They also send us samples of a number of pleasant champagne drinks.

TIDY LAMP-WICK CASE.—Chemists who sell lamp-wicks will find this case a considerable convenience. It has been



patented by Messrs. Martin & Newby, of Ipswich, is made of wood, nicely varnished, and each case is arranged to hold eight different sizes of flat wick for general use. Each roll of wick is placed between two plates, connected by a screw, which passes through the centre; the screw thus forms an axle, which allows the wick to be drawn off as required. The size of the case is 15 inches long by 9 inches wide. Two rules are thoughtfully fixed on the top of the cover, so that the wick can be measured on it. Messrs. W. B. Fordham & Sons (Limited), York Road, N., are the sole selling agents.

MESSRS. JOHN WYETH & BROTHER, of Philadelphia, publish an exceedingly useful "Therapeutic Reference and Dose

Book." It deals with vegetable drugs, and especially with those which are indigenous to the United States, giving their common and scientific names, and dealing succinctly and intelligently with their chemical and therapeutic properties. Under each heading we find formulæ for preparing official (U.S.) and unofficial preparations from the fluid extracts of the drugs, this department of pharmacy being one to which the Philadelphia firm have long devoted careful attention.

MESSRS. A. & F. PEARS (LIMITED) have just published, as No. 3 of "Pears' Pictorial," a beautifully-printed and quaintly-illustrated edition of the "Vicar of Wakefield." The most *blasé* of novel-readers never seems to lose interest in the joys and sorrows of Dr. Primrose and his family; but the special feature of this edition is the illustrations, which are reproductions of the original drawings of Thomas Rowlandson, made for the edition of the "Vicar" published soon after its first appearance by Rudolph Ackermann. These drawings add quite a new interest to the good old work. Ackermann's edition now sells for 10*l.* 10*s.* a copy, or thereabouts; Pears's can be got for 1*s.*

THE CHARLES A. VOGELER COMPANY, through their European manager, Mr. W. E. Geddes, referring to a paragraph published in this journal on February 17, stating that the trade-mark "St. Jacob's Oil" had been removed from the German trade-mark register, ask us to explain that this refers to a trade-mark which they registered in Germany, No. 3,168, in the year 1884, consisting of printed matter only, which expired by effluxion of time on January 1, 1894, but that their subsequent registration of the words "St. Jacob's Oil," the St. Jacob's-oil wrapper, also their Monk trade-mark, in Germany in the year 1888 are not removed from the register, nor cancelled, but the registration of them is still in force.

MESSRS. THOMAS CHRISTY & Co., of 25 Lime Street, E.C., as agents for the Norddeutsche Wollkammerei of Bremen, are prepared to supply the trade with two wool-fat products, which have not hitherto been obtainable, except in enormous quantities. Brown "Neutral Wool-fat" is a fatty product from warm-water wool washings, not purified to the extent necessary for *adepts lanæ B.P.*, and retaining the peculiar odour of the wool. From its neutrality, however, the fat is well adapted for making veterinary ointments, and for compound lubricants it should be specially valuable. "Wool-fat Fatty-acid" is a brownish black mixture of cholesterin bodies and fatty acids. It has a high melting-point, is of tenacious consistency, and not objectionable odour. We think that this material will be found very useful for making shoe-blackening, harness-paste, and other leather dressings. There are other purposes for which it may be adapted in which a cheap and high-melting fat is wanted.

WE have received from L. Schütte, Landsberg & Co., Leyh b. Nürnberg, who have recently opened an office at Dashwood House, New Broad Street, E.C., in charge of one of the partners, samples of their "Clover brand" chlorophyll, al-cannin, and palmophyll, together with a sample of benzoic acid. These products are manufactured expressly for soap-manufacturers. We have no doubt that soap-makers and others who use chlorophyll to any extent will have noticed a difficulty in obtaining a pure article, much of that offered commercially being largely composed of synthetical matter. This brand is supplied in the form of a soft fatty extract, perfectly and quickly soluble in chloroform and ether. It is almost entirely soluble in S.V.R. to which it yields a beautiful colour, which suggests at once its use in perfumery to give the green tint to essence of white rose, wood violets, &c. The solubility of this chlorophyll is complete in warm fats and oils. The green colour of ung. sambuci vir. can be quickly matched, and the making of ol. viride becomes the work of a few minutes. The alcannin is supplied in a similar form, and answers much the same tests of solubility. For lip salves the use of this colouring would save the messy and wasteful digestion of alkanet root in the oil, as it dissolves at once in warm fats. It would be useful for colouring liquid dentifrices and tooth-pastes, especially if the former were largely spirituous. The palmophyll communicates a golden yellow colour to fats and oils, and should find a sphere of usefulness in the making of pomades and golden hair oils. The sample of benzoic acid answers all the B.P. tests, and its pleasant odour makes its source "ex gum" very obvious.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., March 8.

Germany and East African Trade.

Mr. Geo. S. Mackenzie, in the paper recently read by him before the London Chamber of Commerce, called attention to the diversion of the trade of the East African ports from London to Hamburg and other Continental ports. He ascribed this to the effect of the State-supported German steamship lines running from Hamburg to the German East African ports and between East Africa and Bombay. "The existence of these lines of communication," he said, "explains the increased supplies of ivory and rubber which have recently been placed in Hamburg; it tends also to divert the important clove-trade with America into foreign hands. Not only this, but the direct steamers exercise a powerful influence upon the import trade. Recently my firm has received indents for over 2,000*l.* in value for prints, shirtings, earthenware, soap, and sundry other articles, for which German samples were supplied, and which we were instructed to order in Germany. This, it is true, is not a serious matter, but it may be taken as the cloud on the horizon which foretells the coming storm, requiring the closer watching of the falling barometer. It is, we know, difficult to displace a particular trade-brand or stamp once it has obtained a hold on a native market. Thus the prolonged inaction of our Government in this quarter is tending to establish a market for German manufacturers in British East Africa, and it may be possible to find, under our free-trade regulations, British trade practically boycotted in British territory." The barometer simile does not seem a very happy one, for all the watching of a barometer will not keep a gathering storm from breaking. We can only wait for the inevitable or fly away to a place of safety, neither of which alternatives would probably recommend itself to Mr. Mackenzie as a reasonable one in this case. We gather from the tone of his paper that he wants either a British subventioned steamship line or differential duties, for a general tariff would hit us just as much as our rivals. But as he himself admits that preferential duties are barred under the Brussels Convention, there remains nothing but the subventioned steamship line, and if our chance of holding our trade depends upon that, we are afraid there is not much possibility of preserving it.

A Canadian's View of "The Lane."

A Canadian buyer who has visited Mining Lane tells his experience to the *Canadian Druggist*. He is a trifle "out" here and there, but independent of that we are none the worse of "seeing ourselves as others see us." Of the show-days the Canadian remarks that "the packages are on exhibition for several days before the sale, and you will see brokers inspecting carefully, and making notes of the amount they think the goods should bring. Then on Thursday at 10 A.M. the auction begins, and if Englishmen are reported phenomenally slow, these sales are not such, as it is remarkable with what rapidity the goods are sold. It sometimes may happen, as the sale is closing, that two may bid at about the same time, and the knock-down is so quick it is impossible to tell which is first. When this is the case, it is left to the vote of those present as to who has the bid. The

seats in the salesrooms are not sold, but when a party once secures a seat he is supposed to retain it, and the seats are thus handed down 'from generation to generation.' The accuracy of judgment which the brokers acquire in estimating the value of goods is remarkable. One day I was sitting with a friend while the sales of ipecac were going on. A number of large ceroons were sold, and the prices which they realised were a halfpenny higher than the value which had been put on them by several of the brokers before the sale. My friend said to me, 'Ipecac has advanced a halfpenny to day' (*sic*). This is but one instance of many, and it is a pleasure to note the pride the brokers take in striking the value at which the goods were sold. I think those gentlemen feel disappointed and aggrieved if the goods are sold at less than the values they had put upon them."

The Position of Chillies.

For many years the pungent fruit of *Capsicum fastigiatum* has been on the commercial down-grade so far as price is concerned. In this it has only followed most other tropical products, but the lowness of its price is at present so marked that it deserves to be recorded. We therefore print below the wholesale price of Zanzibar chillies (the variety which, though less esteemed than that from Sierra Leone, is the principal commercial article) in London in the middle of February of the last fourteen years, and the total declared stocks in the public warehouses during the last eight years. The price-quotations range from medium to "fine" quality:—

Year ..	1831	1832	1833	1834	1835
Per cwt.	90 <i>s.</i> -110 <i>s.</i>	80 <i>s.</i> -110 <i>s.</i>	50 <i>s.</i> -77 <i>s.</i>	55 <i>s.</i> -65 <i>s.</i>	60 <i>s.</i> -70 <i>s.</i>
Year ..	1836	1837	1838	1839	1890
Per cwt. ..	34 <i>s.</i> -42 <i>s.</i>	30 <i>s.</i> -34 <i>s.</i>	28 <i>s.</i> -32 <i>s.</i>	30 <i>s.</i> -37 <i>s.</i>	27 <i>s.</i> -34 <i>s.</i>
Stock: packages	—	4,830	6,751	6,584	4,520
Year ..	1891	1892	1893	1894	
Per cwt. ..	60 <i>s.</i> -80 <i>s.</i>	47 <i>s.</i> -65 <i>s.</i>	45 <i>s.</i> -65 <i>s.</i>	25 <i>s.</i> -35 <i>s.</i>	
Stock: packages	1,559	1,747	2,264	3,074	

The question is at what figure the line of unprofitableness to the collector will be reached.

They Do not Want Public Sales in Ceylon.

The Secretary of the Ceylon Chamber of Commerce has addressed a letter to the various broking firms of Colombo calling their attention to a proposal, which has been approved by the Chamber, that public sales of minor products of the islands, including cardamoms, lemongrass oil, citronella oil, and cinchona, should be periodically held at the Chamber of Commerce rooms. There is, however, little or no likelihood of this being done, as most of the prominent buyers have refused to attend public sales.

The Growth of Hamburg and Bremen.

On October 15 last it was five years since the free cities of Hamburg and Bremen were incorporated, for commercial purposes, with the German Empire. Statistics of the commercial movement of the two cities during this quinquennium have just been published, and show an enormous and almost uninterrupted increase in the trade of both, up to the year 1891. In 1892 a slight decline took place, but according to all appearances this is only temporary. The expansion of the commerce of these two leading German ports is indicated at a glance by the following figures:—

	Hamburg		Bremen	
	Imports	Exports	Imports	Exports
1887—Tons ..	5,739,184	3,760,197	2,034,357	1,339,951
" Marks (millions) ..	1,903	1,845	560	526
1892—Tons ..	8,554,837	5,179,661	2,613,979	1,890,935
" Marks (millions) ..	2,607	2,313	719	684

Of the import figures for 1892, 5.5 million tons weight came into Hamburg by sea, and 3 million tons by river and land. The first-named figures represent, therefore, practically the city's imports from abroad. In the case of Bremen,

1.6 million tons came by sea and 1 million by land. As regards the export trade, the figures in Hamburg's case are more even, 2.4 millions of tons weight having gone out by sea (mostly to foreign parts), and 2.8 landwards into Germany and Central Europe.

The Violet Crop in Southern France.

The collection of violets for perfumery purposes is now in full swing on the Riviera. The harvest promises to be an abundant one, rains having fallen in good time to cause a luxurious flowering of the plants. Unfortunately, a new insect-pest, attacking the roots of the plants, and seriously injuring the vigour of the flowers, has made its appearance this season. Agricultural chemists are trying to find a remedy against it, but so far without success.

The Manchester Chemical Market.

During the last week or two there has been less inquiry for chemicals generally. There is still a good demand for *Bleaching-powder*, especially in hard wood casks for export; but *Carustic soda* is rather easier; and there is less doing in *Soda ash*, although the price of that article remains steady. *Chlorates of potash and soda* are not changed. Business in *Tar products* continues unsatisfactory. *Pitch* is easing. There is very little doing in *Benzoles*. *Solvent naphtha* is just steady. *Carbolic acids* are unchanged in value, but there is little business passing. *Acetates of lime* are rather dull, but prices are steady. *Acetates of lead* are moving fairly well. *Acetate of soda* is neglected.

The Liverpool Market.

Writing on Wednesday, our Liverpool correspondent informs us that the interest manifested in *Calabar beans* during the past few weeks has been well sustained. Large sales have been made at $2\frac{1}{2}d.$ per lb., and there are still buyers at the price, but no sellers under $3d.$ per lb. The new crop of *African ginger* also sells readily as it arrives, at prices ranging from $33s.$ to $35s.$ per cwt. These figures have been freely paid during the week. A steeper tone prevails in *castor oil*. The value of good seconds was a shade better at $2\frac{1}{2}d.$ to $2\frac{3}{4}d.$ per lb. ex-quay and store. *Guinea grains*: An advance of $1s. 6d.$ per cwt. has been paid. This brings up the price to $21s. 6d.$, but now holders talk of $25s.$ per cwt. *Chilian spermaceti* is very firmly held at $1s. 3d.$ per lb. The *Quillaia bark* market is very firm at $12l.$ per ton; most of the weak holders have been cleared out. In *Wax (Bees')* we are almost bare of all descriptions, and the small parcels remaining are very firmly held.

The London Market.

A slightly better tone has been perceptible in the drug and chemical markets this week, and both home-traders and exporters report a better flow of orders and more cheerful anticipations for the coming summer. There has been no alteration in the Bank-rate, which remains at 2 per cent. The Board of Trade returns for February show a decided improvement in the exports, the figures being:—

1894	1893	1892
17,679,449l.	17,093,309l.	19,328,753l.

In the imports there is a still larger increase, the total being 33,984,085l., compared with 29,759,640l. in February, 1892.

In the chemical-trade there are very few price alterations to report. Quinine is somewhat higher, the cinchona sales having resulted in a slight advance. Cream of tartar is also dearer, and tartaric acid has been in improved demand, Borax, boracic acid, and citric acid, however, remain dull. Quicksilver is down, but mercurials are as yet unchanged. Cod-liver oil has advanced considerably, and has been the chief trade-topic of the week. Jaborandi-leaves are arriving freely. Opium shows no alteration, but camphor is still on the downward road.

ACID (ACETIC).—A small reduction in price has taken place for all grades, the following being the present quotations:—Thirty-per-cent., $16s. 3d.$; 33-per-cent. (B.P.), $17s. 6d.$; 60-per-cent., $29s.$; glacial (99-100 per cent.), $48s. 9d.$ per cwt. These prices are for quantities below 4 tons.

ACID (BORACIC).—Prices are gradually easing off owing to competition. Powder offers at $37s. 9d.$, and crystals at $36s. 3d.$ per cwt. There has been a little more trade doing at these quotations, and some makers do not care to offer for forward delivery.

ACID (CARBOLIC).—As is often the case at this time of the year, when the local authorities are making their contracts for the coming summer, prices have stiffened a little for liquid acid, while crystals remain very firm. The quotations are now:— $39-40^{\circ}$ (ice-form) crystals, $6\frac{1}{2}d.$; $34-35^{\circ}$ crystals, $5\frac{1}{2}d.$ per lb.; liquid 95 per cent., $1s. 6d.$ per gallon. There are makers, however, who ask $1s. 8d.$ per gallon for the last-named kind.

ACID (CITRIC).—Quiet, at $1s. 4\frac{1}{2}d.$ per lb. for English (B.P.).

ACID (OXALIC).—The price is maintained at the figure to which it was raised by the makers early in the year, which is equal to $3\frac{1}{2}d.$ per lb. in London, but the demand has not quite come up to the expectations so far.

ACID (SULPHURIC).—The price is nominally $1d.$ per lb., but a discount of 45 per cent. is allowed off this for wholesale quantities. Packed in jars, the price is $14s.$ per case. Solid sulphuric acid is quoted at $11l.$ per ton.

ACID (TARTARIC).—There has been a distinct improvement in the demand this week, but price cannot yet be quoted higher, from $10\frac{1}{4}d.$ to $11d.$ per lb. will still buy English. *Foreign* is quoted at $10\frac{1}{2}d.$ for crystals, and $10\frac{5}{8}d.$ per lb. for powder. The consuming season however is approaching, and the article has rarely, if ever, been so low-priced as it is now.

ANTIMONY.—Crude Japanese may be had at about $19l. 15s.$ on the spot. Antimonial preparations are tending lower in sympathy with the fall in the raw material; thus *Antim. crocus* is now quoted at $38s.$ (powder at $41s.$); *Black antimony* at $24s.$ (powder at $27s.$) per cwt.; *Tartrate of antimony*, in crystals or powder, at $1s. 2d.$ per lb.; and *Potass. tartrate* at $8d.$ per lb. for crystals and $8\frac{1}{2}d.$ per lb. for powder.

ASAFOETIDA.—A few more lots of the good blocky quality offered at last auctions have been sold at $80s.$ per cwt., which shows a steady price. At the end of last week there was another arrival of about 70 packages, which will be offered at the next auctions.

BALSAM COPAIBA.—In Liverpool the market remains neglected. The only sale reported recently consists of a small lot of cloudy *Maranhm* balsam at $1s. 7d.$ per lb.

BELLADONNA.—Fine continental leaves are in plentiful supply at low prices. Dark brown, $30s.$; good green up to $50s.$ per cwt.

BORAX.—Although the combination still holds together the market is gradually breaking down, and there are several parcels offering cheaply. The convention prices remain unaltered, but English crystals, from makers outside the combination, have been sold in Liverpool at $24s. 6d.$ per cwt., net cash terms.

CAMPHOR (CRUDE).—There have been heavy arrivals, and there is every indication of a continued fall in price. The *Glamorganshire* brought 2,023 packages this week. A sale of 100 piculs *Japan* camphor, March-April shipment, was made at the end of last week at $100s.$ per cwt. c.i.f. terms; since then there are sellers, but no buyers, in the same position at $95s.$ per cwt. c.i.f. terms. *China* offers at $82s. 6d.$, c.i.f.

CANARY-SEED.—At auction on Wednesday 85 bags *Turkish* seed sold at $42s.$, and for good *Spanish* $53s.$ per 464 lbs. was realised.

CANTHARIDES.—Medium quality partly dusty Chinese flies are selling privately at from $10d.$ to $10\frac{1}{4}d.$ per lb.

CASOARA SAGRADA.—The market is said to have improved somewhat since last week, and the asking-price for fine thin bright bark is now about $28s.$ per cwt.

CHLORATE OF POTASH is dull of sale. On the spot, $7\frac{5}{8}d.$ to $7\frac{1}{2}d.$ per lb. is the general quotation, while for delivery the prices are: March-June, $7\frac{1}{4}d.$; July-December, $7\frac{1}{4}d.$ per lb.

CINCHONA.—Although the quantity of bark offered at auction on Tuesday was rather above the average of the last few months, at least 25 per cent., the bulk might in reality be described as non-effective, inasmuch as it comprised 273 bales of "ancient" *Cuprea*, and some 204 packages of various cinchonas held by speculators, who bought them two or three years ago, when prices seemed to have reached their lowest depth, and who are now feeling the market rather than wishful to sell. The eight catalogues totalled up as follows:—

	Packages	Packages
Ceylon cinchona	394 of which	239 were sold
East Indian cinchona	560	416
Javanese cinchona	144	14
African cinchona	351	351
South American cinchona	399	359
Cuprea bark	273	106
	2,121	1,385

Much of the Eastern manufacturing-barks was of good quality. Competition was brisk and at times keen, and a slight improvement in price on the preceding sales can be recorded, the unit averaging $1\frac{1}{2}$ d. per lb. for the better kinds. Holders showed themselves pretty firm, and in some cases refused to sell although offered a slight advance upon the last sale-prices. To the surprise of most people, *Cuprea* barks were actually saleable (at a price) and about one-third of the quantity offered found buyers. The quantities of cinchona acquired by the principal purchasers were approximately as follows:—

	Lbs.
Agents for the Brunswick works	92,173
Agents for the American and Italian works	53,654
Agents for the Frankfurt-on-the-Main and Stuttgart works	47,885
Agents for the Mannheim and Amsterdam works	42,500
Messrs. Howards & Sons	28,310
Agents for the Paris works	24,298
Agents for the Auerbach works	2,910
Druggists	18,500
Total quantity of bark sold	310,230
Bought in or withdrawn	117,615
Total quantity of bark offered	427,845

It should be remembered that the proportion of bark bought by a buyer is no indication of the percentage of the total amount of quinine in the sales represented by his purchases.

The following prices were paid for sound bark:—

CEYLON CINCHONA.—*Original*: red varieties: ordinary stem chips, $\frac{1}{2}$ d.; fair root, $1\frac{1}{2}$ d.; grey common to fair chips and shavings, $1\frac{1}{2}$ d. to $2\frac{1}{2}$ d.; yellow, fair to fine stem chips, $2\frac{1}{2}$ d. to $3\frac{1}{2}$ d.; common Hybrid chips, $1\frac{1}{2}$ d. per lb. *Renewed*: red chips and shavings, common to fair, 1d. to 2d. per lb.; dull grey shavings, $1\frac{1}{2}$ d. per lb.

EAST INDIAN CINCHONA.—*Original*: Fair to good red chips and shavings, $1\frac{1}{2}$ d. to $2\frac{1}{2}$ d.; grey fair to good chips and shavings, $1\frac{1}{2}$ d. to $3\frac{1}{2}$ d.; good bright root, $3\frac{1}{2}$ d. per lb. Good yellow stem chips, $3\frac{1}{2}$ d. to $4\frac{1}{2}$ d.; fair branch chips, $2\frac{1}{2}$ d. per lb. *Renewed*: Fair red chips and shavings, 2d.; grey chips, $2\frac{1}{2}$ d. to $6\frac{1}{2}$ d. per lb.

JAVA CINCHONA.—Fair yellow-stem chips, $2\frac{1}{2}$ d. to $2\frac{3}{4}$ d.; ditto, root, $2\frac{3}{4}$ d.; Hybrid stem chips, $2\frac{1}{2}$ d. to $2\frac{3}{4}$ d. for ordinary and $5\frac{1}{2}$ d. per lb. for fine quality.

WEST AFRICAN CINCHONA.—Fair medium to bold quilly red-stem chips, $2\frac{3}{4}$ d. to $2\frac{5}{8}$ d.; damaged to fair bright quill, $2\frac{3}{4}$ d. to $3\frac{1}{4}$ d. per lb.

SOUTH AMERICAN CINCHONA.—Cultivated Bolivian Calisaya quill, fair medium silvery, partly irregular, $4\frac{1}{4}$ d. to 5d. per lb.

CUPREA BARK.—A fair proportion sold at $1\frac{1}{4}$ d. to $1\frac{1}{2}$ d. per lb. for dull, partly damaged; and $\frac{1}{2}$ d. per lb. for very common.

At the Amsterdam auctions, on March 1 the equivalent of 901 kilos. sulphate of quinine in the bark realised a unit price of 4c., 5,677 kilos. of $4\frac{1}{2}$ c., 7,109 kilos. of $4\frac{3}{4}$ c., and 1,148 kilos. of $4\frac{3}{4}$ c. per $\frac{1}{2}$ kilo. Several of the lots which sold at the lowest unit rate were sold upon analyses made in Java. Nearly all the manufacturers' barks were sold, only 143 bales (mostly pharmaceutical barks) being bought in. Although the average quinine percentage was high, the

best parcel only analysed 8.56 per cent. This consisted of 6 bales crushed *Ledger* stem, and sold at 38 $\frac{1}{2}$ c. per $\frac{1}{2}$ kilo. Pharmaceutical barks of fine quality were in fairly good demand, but poorer grades were neglected.

The following figures show the total exports of cinchona from Java during the last five years (January 1 to December 31) in $\frac{1}{2}$ kilos:—

	1893	1892	1891	1890	1889
Private plantations	6,913,556	5,968,745	7,165,927	6,109,423	4,066,382
Government plantations	519,258	568,846	742,760	518,884	772,938
Totals	7,432,814	6,537,591	7,908,687	6,628,207	4,839,320

CREAM OF TARTAR is considerably dearer. Best white French crystal is now held for 60s. per cwt. in London, while for German powder 68s. is asked; the price for crystals in France is from 63s. to 64s. per cwt., f.o.b. Bordeaux.

DRAGON'S-BLOOD.—There has been a fresh arrival of about 30 cases; good finger in reed has been sold at 8l. per cwt.

GALLS.—*China* are lower; business is reported this week at 39s. 6d., c.i.f. terms, for February to April shipment, while to-day there are sellers at 38s. per cwt., c.i.f. *Persian*: Sales of blue Bassorah at from 57s. to 58s. per cwt. are reported, which shows a slightly steadier market. The price of blue Smyrna runs from 54s. to 55s. for good quality.

GINGER.—A steady market for *Jamaica* root, which sold at auction at 66s. to 66s. 6d. for ordinary small dull and lean, and at 62s. 6d. to 63s. per cwt. for Rhatoon. Small supplies of *Cochin*, *Japan*, and *Bengal* ginger were bought in.

GLYCERINE.—The market is somewhat firmer this week, and it is reported that some of the German manufacturers have stopped selling at present; it is, however, still possible to buy at 46s.

GUM TRAGACANTH has been moving pretty freely, especially for fine druggists' qualities, which have sold at from 11l. to 11l. 10s. for seconds, and up to 12l. for firsts; medium grades are neglected. *Hog* gum has sold at from 57s. 6d. for common up to 95s. for fine picked.

HONEY.—The low prices now ruling seem to deserve attention, although supplies are rather heavy, especially in the *Chilian* variety.

INSECT-FLOWERS.—There is a very strong demand at firm prices, and quotations generally have a higher tendency. Closed *Flowers* are quoted at 95s. to 110s., half-closed at 83s., and open at 62s. per cwt., c.i.f. terms. *Powder* is offering at 77s. per cwt., c.i.f. The market is steady, but it is reported that the stock in Trieste has increased by no less than 40 tons during the month of February.

JABORANDI-LEAVES.—Good quality is in request at steady prices, but common kinds are neglected. The price runs from 9d. to 1s. 2d. per lb., according to description. Fine leaves would probably be worth more than 1s. 2d. A lot of 74 bales has just arrived in Liverpool; the quality is not yet known.

JALAP.—Further small sales of fine Vera Cruz are reported at 1s. 5d. per lb.

MENTHOL.—For the moment there is nothing doing, and prices are merely nominal on the spot; to arrive 13s. 6d., c.i.f., is the quotation for March-April shipment; but in this position, also, no business is reported. On the spot 16s. is the nominal price.

MERCURIALS.—The decline in quicksilver has not affected the mercurial prices at present, excepting that of vermilion, which has been reduced 1d. per lb., and is now quoted at from 1s. 10d. to 2s. $1\frac{1}{2}$ d. per lb., according to quantity.

OIL (CASTOR).—Yellow Madras oil (second quality) has been sold to arrive at the low price of $1\frac{1}{2}$ d. per lb., c.i.f. terms.

OIL (COD-LIVER).—There has been a further strong advance this week, and as we go to press the general asking-price for fine non-congealing new seasons Lofoden oil is

100s., c.i.f., per barrel. This price, however, has not been paid, and it is doubtful at what figure it would be possible to transact business. Old oil, we understand, has been sold this week at from 72s. 6d. up to 75s. per cwt., and the last-named figure has been refused to-day. One dealer suggests that the new oil might perhaps be obtainable at 80s., c.i.f. terms, but we do not know whether that figure would actually prove acceptable: at 85s., c.i.f., however, it might be still possible to buy. The reports from the fishing districts are becoming more and more serious. Up to March 3 the production in the Lofoden had been 2,700 hectolitres of oil against 5,400 hectolitres at the corresponding period of last year. The fishing at Finmarken, which ended before the beginning of the Lofoden season, has this year yielded 1,500 barrels of oil against 5,000 last year. The general view of the dealers is that stocks everywhere are small, and that unless a very considerable improvement sets in there is nothing to prevent prices from going very much higher. The livers are lean, and when that is the case the oil is rather darker in colour than if obtained from fat livers. On the other hand, the experience of most English druggists is that it is unsafe to buy in a rising market before Easter.

OIL (OLIVE).—The market in Leghorn is reported firmer for fine eating-oils, as the quality of the olives gathered at the end of the season is said to have been very poor. The price for good to fine eating-oil, in bogsheads, is from 5s. 3d. to 5s. 9d. per gallon.

OILS (ESSENTIAL).—*Star-anise*: None is offering at present from China. The latest quotation was 5s. 8d. per lb., c.i.f. terms for shipment, but it is doubtful whether it would be possible to buy at that rate now. The oil is selling on the spot in a small way at 5s. 9d. per lb. *Japanese Peppermint oil* is lower. On the spot there is very little demand, and to arrive sellers are trying to place orders at the reduced price of 8s. 10½d. per lb., c.i.f. *Cassia oil* of medium quality has been sold to arrive at 2s. 10d. to 2s. 11d. per lb., c.i.f. terms. News from Hong Kong, dated February 1, describes the stock of *Star anise oil* on the Chinese market as almost exhausted. The nominal price quoted was from \$305 to \$310 per picul. Of *Cassia oil* about 30 piculs common quality (50 per cent. aldehyde) were offering \$155, and a few boxes of 65-70 per cent. oil, at \$165. This was the whole supply on the market. *Oil of eubeds* has again been lowered in price by some of the distillers, owing to the reduction in the cost of the raw material. The general quotation is about 7s. per lb. for the best quality. The quotations for Sicilian oils are rather low. *Lemon* is offering at from 3s. 3d. to 3s. 9d. per lb. for "finest" to "superior"; *Bergamot* at 8s. 6d. to 10s. 3d.; *Sweet Orange* at 3s. 11d. to 4s. 3d.; *Bitter Orange* at 5s. to 6s., and *Mandarine oil* at from 16s. to 22s. per lb., all c.i.f. terms.

OPIMUM.—The present week has been a very dull one for all qualities excepting *Soft shipping*, in which there has been slightly more business; from 12s. 6d. up to 13s. is reported to have been paid for finest Tokat and Malatia. These soft-shipping qualities have until now been more or less neglected. Some few cases of manufacturing kinds have been sold at the last quotations—namely, from 11s. 6d. to 12s. for good to fine Smyrna, and from 10s. 6d. to 11s. for seconds; but there is no eagerness to buy. *Persian* is quoted nominally at from 10s. to 11s. 9d., but nothing is doing in it. Our Constantinople correspondent writes, under date of February 28:—"We have again to report a fair amount of business, some 140 cases having been taken for American account, but only at a drop on highest price touched this month. *Druggists'* kinds sold at 11s. 1d. to 10s. 8d., f.o.b. The decline was brought about by Smyrna dealers, who, quite unexpectedly, sold this week 500 cases at a 5-per-cent. drop, of which, however, 450 were for the American speculative clique. We have no doubt but that the agent in Smyrna induced holders to sell by assuring them that unless he could buy immediately his orders would be withdrawn. News from the interior continues to report:—"In some districts, considerable, and in others only slight, damage." The stocks existing in Turkey to-day are barely 1,500 cases, which, with about 500 cases, stock of *druggists'* opium in London, makes a total of 2,000 cases outside American holdings." "Our opium market," writes a Smyrna correspondent on February 24, "has been hardening

throughout the month, in consequence of a continuation of large purchases for America. The last price paid for *Current talequale* was equivalent to 11s. 6d. per lb., f.o.b. But if America ceases buying we may have a reaction, especially as we have had a good deal of rain of late, which will enable the opium-growers to continue sowing, and should the weather prove favourable hereafter the prospects for the coming crop may be more satisfactory than at present." Another Smyrna correspondent writes on February 23:—"All the holders of opium here who have heard that the cause of the rise is due to the impending change in the American tariff are now wanting to realise, as they know that as soon as the American purchases are at an end a breakdown is unavoidable. My reports about the coming crop are more and more confirmed as time wears on. If the Americans continue to buy, the market may yet be kept up for awhile; but it would be wrong to ascribe such a rise to the effect of the harvest prospects."

ORRIS.—Reports from Leghorn, dated March 1, speak of a downward tendency for the root, owing to an almost complete absence of the demand. For this reason holders are momentarily weaker, and offer good to fine selected *Florentine* root in casks at 78s. to 80s. 6d. per cwt., f.o.b., and dark mixed dull root at 73s. 6d. to 75s. per cwt., f.o.b. *Verona* root ranges from 51s. 6d. to 61s. 6d. per cwt., f.o.b., according to quality. It is added, however, that with the first revival of the demand, higher rates are likely to be demanded, although we should think that as long as the Italian exchange keeps falling there is little prospect of any improvement.

PILOCARPINE has become rather firmer lately, after declining somewhat from the previous high quotations. *Nitrate* is now quoted at from 65s. to 67s. 6d. per lb.

PIPERAZINE.—The two German firms who make this preparation, and between whom a collision was threatening, have come to an understanding, and are now quoting the same price—viz., gramme vials, 9s. per oz.; ¼ to 1 oz. vials, 8s. 3d. per oz.; compressed, in tubes of ten 1-gr. tablets, 7s. 6d. per oz. A circular has been issued by Messrs. Bayer and Schering combined, announcing this fact.

POTASH-SALTS.—Best Canadian *Potashes* are held for 25s. per cwt., which is a trifling increase upon the last price paid. *Pearl ashes* close at 40s. per cwt.

QUICKSILVER.—On Tuesday the importers reduced their price by 5s.—namely, to 5l. 12s. 6d. per bottle; second-hand holders are now offering at 5l. 11s. 6d. to 5l. 12s. Ten thousand bottles have arrived this week from Spain, and 500 from Italy.

QUININE.—After a period of stagnation, buyers again appeared in the market last Friday, when the result of the Amsterdam cinchona-sales was known, and 20,000 oz. B. & S. or Brunswick were quickly placed at from 11½d. to 11¾d. per oz., showing a rise of about ¼d. per oz. Afterwards 5,000 oz., June delivery, sold at 1s. per oz. Early this week the advance made some further progress, and on Tuesday, after another sale of 15,000 oz. at 11¾d. per oz., holders asked 1s. per oz. for "spot" all round. To-day a few lots might still be picked up on the spot at 11¾d. per oz., but the general tendency is higher. It is said that 11½d. per oz. has been refused for May delivery.

SAL-AMMONIAC.—Best quality is now quoted at 39s., second ditto at 37s. per cwt.

SOY.—*Chinese* is lower, and a sale is reported at the price of 1s. per gallon landed terms for arrival.

STAPHISAGRIA-SEED.—The price has much advanced lately, and at present scarcely anything is offering.

STAR-ANISE.—A very dull market; on the spot the asking price is 75s., and to arrive it is possible to buy at 69s., c.i.f. terms.

TONCA BEANS.—The last sale reported from Liverpool was one of a parcel of good frosted Pará beans at 1s. 10d. per lb.

WAX (JAPAN).—Small sales of fair pale squares have been made on the spot at 34s., to arrive the quotation is as low as 29s. 3d. c.i.f. terms.



Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

The Medicine (Antipyrin) had nothing to do with the Death.

SIR,—In your issue of March 3, we note, in reference to the case of sudden death at Sheffield, that you gave the heading as "Death after taking Antipyrin." This we fear may lead to the inference that antipyrin was really the cause of death. It is perfectly clear, according to the published reports, that there was no evidence whatever to show that Antipyrin caused the death. On the contrary, the medical testimony was distinctly that "the medicine had nothing to do with the death."

"The jury expressed themselves satisfied and returned a verdict in accordance with the medical testimony."

Yours very respectfully,

March 7. BURROUGHS, WELLCOME & Co.

Griffiths's Mixture.

SIR,—In your last issue, p. 301, Dr. Dupré is reported as informing the Court of Justice in which he appeared as a witness that "Griffiths's Mixture" was composed of iron, potassium, aloes, and ergot of rye.

As I have been accustomed to regard "Griffiths's Mixture" as a synonym for the compound iron mixture of the Pharmacopœia, which contains two only of the four drugs mentioned, I should be glad to know the authority for the Doctor's statement.

Yours very obediently

March 6. J. F. BROWN.

[Probably a misapprehension of the reporters.—ED. C. & D.]

Standards of Ash in Saffron.

SIR,—Mr. Barclay's paper, in your issue of February 24 raises the question, What is the value of "about" in the B.P. statement—"Saffron contains about 6 per cent. of ash"? I should suggest that anything below 5.5 per cent. or above 6.5 per cent. is not "about 6 per cent." Taking these limits, I find that out of Mr. Barclay's thirty-four samples fourteen are within, sixteen below, and only four above these limits. Similarly, about 7 per cent. of the dried saffron would mean 6.5 per cent. to 7.5 per cent.—of the thirty-four samples twenty-one are below, eighteen within, and five above these limits. This shows that the proposed standard would condemn five as too high, and the B.P. standard only four samples out of the thirty-four. I presume Mr. Barclay considers all his samples were genuine, though he does not say so. In my opinion, the samples with 7.2 per cent., 7.0 per cent., and 6.8 per cent. of ash were not saffron in the legal sense, and that a public analyst would be justified in condemning them as not of the quality required by the B.P., though whether the vendor should be prosecuted is another matter, and one not in his hands. If the B.P. standard is too narrow, let it be extended, say, from $4\frac{1}{2}$ to $6\frac{1}{2}$ per cent., which would include twenty-eight out of the thirty-four samples. I see the new Swiss Pharmacopœia requires saffron to contain not more than 7.5 per cent. of ash.

Mr. Barclay states that the sample condemned by an unnamed public analyst, through being put in a paper envelope, lost "a considerable portion of the original moisture during the time when, previous to analysis, it was in the analyst's laboratory." To-day I happened to find a sample of saffron that had been lying about in a paper envelope in a dry room

for some months, and found that, on drying at 212° F., it lost 12 per cent. of moisture and volatile oil. This confirms the idea that it is impossible that an "air-dry" drug, such as saffron should be, could lose "a considerable portion of the original moisture" by lying wrapped in paper.

Yours truly,

J. F. LIVERSEGE, M.P.S., F.I.C.

Conditional Dispensing.

SIR,—The following note accompanied a prescription handed in this morning:—

"Tell —, if they will make us a legible copy of this prescription, writing down the quantities in words—i.e., so many drachms, grains, or scruples—and not in illegible scrawls, they may make this prescription up, and we will pay for it, and probably shall repeat it. But they are not to make it up without promising a clear copy, as well as return the original. We will do without it first."

I may add that, so far as we were concerned, he "did without it," and an epistle like this is certainly unique in my experience.

Yours truly,

A. M. (252/61.)

[The above occurred in one of our large Northern cities.]

Saved by Alpe.

SIR,—It will be well for chemists in the North Riding of Yorks to overhaul their labels. The ubiquitous I.R. officer is on the war-path. I had a visit from him to-day, but fortunately I had studied Alpe, and he had to retire defeated. He boasted of having caught someone sinning at Thirsk—in the proprietor's absence. This appears to be his method, for I was absent for a few minutes, during which he advanced to the attack. Alpe is invaluable. *Verb. sap.*

Yours,

FRAS. E. ROOKLEDGE.

Sulphocyanide of Ammonium.

SIR,—The Britannia Works Company wrote to the Secretary of the Pharmaceutical Society to ask if sulphocyanide of ammonia might be sold by others than chemists, and in *Photography* they publish the reply they have received, which is, that "the article to which you refer is not a poison within the meaning of the Pharmacy Act, 1868." I, in common with others, I expect, have considered that this chemical came under the heading of metallic cyanides, and have therefore registered its sales, but that, it seems, is not necessary now.

A. P. (252/5.)

Arsenical Compounds.

SIR,—We quite agree with the remarks of "Reform," for if "Cooper's Sheep-dip" were boldly labelled "Poison. A preparation of arsenic," in red on the white label, we should have felt that the prosecution was justified; but to drop on a retailer without warning for selling what chemists were not treating as a poison—for it does not appear that they were in the habit of entering the sale—seems to us rather a travesty of justice. The word "Poison" on "Cooper's Dip" is at the end of a lot of reading matter, and it appears to us an injustice that proprietors should be able to watch retailers suffering penalties, without bearing any responsibilities. However, we have bought our experience and desire to say no more about it, but would mention the following as a warning to all who deal in this dangerous compound. In our case the prosecution produced a tin of mustard and compared the colour with "Cooper's Dip," and drew a vivid picture of a careless domestic having this in a cupboard and mixing it for mustard. This is how it appealed to the policeman mind, and no doubt carried great weight with the Bench. The outcome is that let the retailer take what precautions he may, and satisfy himself as to the *bona fides* of the purchaser, he is still breaking the law in a manner over which he has no control. It is the wrong colour, according to the Arsenic Act. Further, the right of proceeding under this Act is not vested in the Pharmaceutical Society, but the unfortunate retailer is at the mercy of anyone with some petty jealousy to serve who likes to summon him, as in our

case; and it would not be wise to expect help or sympathy from the proprietors.

Chester.

PEARSON, BARTON & Co.

[The compound comes under the Pharmacy Act as well as under the Arsenic Acid, and under the former it is quite competent for the Pharmaceutical Society to take proceedings for the recovery of the penalty when unregistered persons sell it.]

The Spirit-tax.

SIR,—At this season all kinds of rumours are astir as to Budget changes, and I have heard that spirit-duty is again to be increased. Cannot the Parliamentary influence the Pharmaceutical Council are said to possess be utilised to make the spirit used in the preparation of medicines free from the last increase and any future advance?

The user of the article ought to pay the tax; but it is impossible to divide the 6*d.* per gallon equally over the number of sales that occur before a gallon of a proof-spirit tincture is sold by retail, and in consequence of that impossibility the druggist has had to bear the whole of the last advance.

Yours truly,

March 1.

H. (252/19.)

Mist. Olei Ricini, B.P.

SIR,—In your issue of March 3, under the heading "Liverpool Pharmaceutical Students' Society," I see a note by Mr. R. C. Cowley on the preparation of Mist. olei ricini, B.P. He avers that he has found the best results by mixing the oils, potash, and syrup in a mortar, and then adding the water gradually. This method is decidedly better than that adopted in the Pharmacopœia, but as a modification of the above method I would suggest the following, which I have found to work admirably, and results in a preparation which keeps good for a considerable time. It is to mix the oils in a mortar, and to add the syrup, previously mixed with half the quantity of potash. After this has been incorporated thoroughly, the water mixed with the remaining half of the potash is added in a continuous stream, at first slowly. This method has the double advantage of being expeditiously performed, and gives a much more presentable product than any method I have ever tried.

I am, &c.,

Aberdeen, March 5.

A. R. (253/68.)

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers containing formulae, educational or other specific information can be obtained from the Publisher.

237/35. *A. W. W.*—Mr. John Moss's method of making ext. cascarae sagradae liq. misc. is described in the *C. & D.*, February 20, 1892, page 262.

240/14. *L. K.*—Gentle warmth softens pure rubber, but once the white kind (which contains earthy matter) becomes hard, it cannot be softened.

240/12. *Vermicide.*—Worm-powders for Children.—Santonin, alone or mixed with sugar, for 2 to 5 years, 1 gr.; 6 to 10 years, 2 grs.; 11 to 15 years, 3 grs. To be given fasting, and followed by a dose of castor oil or compound liquorice-powder in four hours.

239/20. *G. W.*—We should think the customer who wanted Glass Pills was thinking of gelatine-coated pills of some kind.

243/66. *Subscriber (N.W.).*—(1) Both Squire's and Martindale's books give all information regarding new remedies. (2) Murrell's "What to do in Cases of Poisoning" (Lewis, 3*s.* 6*d.*).

240/6. *Tomato.*—Salicylic acid is the best preservative for tomato-sauce—say, 2 grs. to 1 oz., dissolved in spt. chloroformi q.s.

230/31. *S. C. M.*—Tan Boot-polish.—*DIARY*, page 370.

239/19. *A Subscriber (Coleshill).*—Arsenical Paste for Teeth-stopping:—

White arsenic	..	..	..	..	3ij.
Hydrochlorate of morphia (or cocaine)	..	..	..	..	gr. iv.
Glycerine and water	..	..	..	..	equal parts to make a paste

239/35. *Emulsion.*—See reply to "Goodwin." If you insist on acetic acid you must make up your mind to have a poor emulsion. Think of what takes place when you bring an acid and a soap together! We do not recall the colour of the powder: what is it?

241/72. *A. J. S.*—We have not heard of headache following the administration of ext. cascarae sag. liq., which is free from the nauseous bitter resin that causes all the trouble.

247/27. *Swede.*—You will find all you want in the *DIARY*.

247/41. *F. E. D.*—(1) With Hubbuck's zinc oxide we have never had difficulty in making Zinc Ointment free from grittiness. Put the oxide in a warm mortar, and pour some of the melted basis upon it. Stir well until it is seen to be free from grit, then add the rest of the basis. (2) The Ammoniated Quinine at 8*d.* per 4-oz. bottle passes our comprehension. Can you send us a sample of it?

248/3. *Pelagos.*—Glycerine of Boric Acid.—See the U.S.P. formula, *C. & D.*, December 23, 1893, page 906.

241/6. *J. B.*—Bronzing-liquid for Brass—Solution of perchloride of iron, 5*x.*; water to 1 pint (gives shades from brown to black). For brownish red: Nitrate of copper, 1 oz.; oxalic acid, 1 oz.; water, 1 pint.

242/65. *Æsculapius.*—According to Sir William Roberts, M.D., malt extract contains numberless lactic bacilli, and these are doubtless the cause of the fermentation of your meat-and-malt wine. Try the liquid extract, which contains sufficient alcohol to kill the bacilli. You should also use a cheap but genuine port. The Tarragona is too poor for the purpose. There is no use attempting detannation of red wines.

241/70. *Timon.*—We are not aware of any apparatus being required for making Sticky Fly-papers on the small scale. A zinc shape and a whitening or paint brush should suit your purpose. Of course, large makers have machines, but these are of their own design.

242/63. *Alpha.*—You will find the star-otto process described in *Attfield*.

243/14. *W. A.*—Oil of Earthworms used to be made by digesting worms in hot oil. Oil of swallows was similarly made with swallows. Sesame or olive oil coloured with alkanet or elder is now given. Oil of petre is British oil. See *DIARY*, page 379.

242/71. *Koumiss.*—Koumiss is ready to take any time after the fourth day, but the longer it is kept the more bitter it becomes. It is seldom necessary to give a koumiss older than twenty days. See the paper by Mr. Adam Gibson in *THE CHEMIST AND DRUGGIST*, 1884, page 71.

244/30. *J. Callaway*.—Fehling's Solution has a blue colour. The proportions which you quote from Luff's "Chemistry" are wrong. They should be—

Sulphate of copper	..	..	..	69.28 grms.
Sulphuric acid	..	..	..	1 c.c.
Water to	..	..	..	1 litre
Make a solution (No. 1).				
Rochelle salt	..	..	..	350 grms.
Caustic soda	..	..	..	100 "
Water to	..	..	..	1 litre
Make a solution (No. 2).				

Equal parts of these solutions are mixed as required.

244/48. *Emulsion*.—Cod-liver Oil Emulsion (thick):—

Cod-liver oil	..	..	..	40 oz.
Powdered tragacanth	..	..	..	200 grs.
Tincture of benzoin (1 in 10)	..	..	..	$\frac{1}{2}$ oz.
Spirit of chloroform	..	..	..	$\frac{1}{2}$ "
Glycerine	..	..	..	2 "
Essential oil of almonds	..	..	..	40 minims
" " lemon	..	..	..	40 "
Distilled water to	..	..	..	80 oz.

Place the oil in a Winchester along with powdered tragacanth, tincture of benzoin, and spirit of chloroform. Agitate briskly for a minute; then add all at once a pint of distilled water, and again shake; then add the rest of the ingredients, including hypophosphites, if desired.

This emulsion is thick enough, but not so perfect a preparation.

246/46. *Aloin*.—(1) Various phosphatic iron ores and slags are now used in making artificial manures. (2) *Paroleine*.—See DIARY, page 161. (3) Consult a medical man.

246/66. *St. David*.—(1) The DIARY answers most of your queries; see page 351. Sorters are expensive machines—viz., about 50%. (2) Pearl and Sugar Coating.—See "The Art of Dispensing," page 82. The sugar-coating used in America is syrup of starch and sugar. (3) Silicated Composition for Boxes.—Solution of silicate of soda with sifted whiting.

234/64. *Shagness*.—Please see "Electric Apparatus" in DIARY "Buyers' Guide."

234/1. *Sapo Cast*.—Cloth-cleaners depend more or less upon ammonia. See, for instance, the formula on page 360 of the DIARY.

236/24. *Theta*.—The premium for apprentices varies according to the nature of the business; 50% is a fair average for four years. There is no book published on the duties of apprentices.

236/32. *T. B.*—Syrupus Anisi:—

Bruised aniseed	..	..	..	1 oz.
Hot water	..	..	..	55 "
Infuse for two hours; strain, press, and filter. In the filtrate dissolve—				
Sugar	..	..	..	66 oz.
Strain.				

Syrupus Croci:—

Saffron	..	..	..	1 oz.
Rectified spirit	..	..	..	4 "
Water	..	..	..	14 "

Make a tincture, and dissolve 2 lbs. of sugar in it.

236/18. *Perplexed*.—In alcoholmetry generally a third or a half of a known volume of the sample is distilled, and the distillate is made up to the original volume with distilled water, and the specific gravity at 60° F. taken. Reference to an alcohol-table will then show the percentage of proof spirit or alcohol.

236/21. *Soda*.—The activity of Weed-killers is entirely a question of arsenic; the more you get in the more effectual is it. Two pounds to 5 galls. with twice as much washing-soda is, on the whole, the best proportion. Omit rock-salt, and colour with aniline blue. For making it use an old laundry copper or kettle. For tins, see the "Buyer's Guide" in the DIARY.

236/29. *Heri*.—By Spt. Saccharini we suppose *Elixir Saccharini*, B.P.C., is meant:—

Saccharin	..	..	..	430 grs.
Bicarbonate of soda	..	..	..	240 "
Rectified spirit	..	..	..	2½ oz.
Distilled water to make	..	..	..	20 "

Dissolve the saccharin and bicarbonate in 10 oz. of water; add the spirit, filter, and make up to 20 oz.

242/29. *F.*—Your Liquid Blue is an aniline colour. We obtained a similar tint by dissolving aniline water-blue in distilled water. Try different proportions.

236/36. *Hongroise*.—For Pomade Hongroise see *C. & D.* November 6, 1892, page 787.

235/39. *Village*.—Egg-julep:—

Curd-soap	..	..	..	3ij.
Borax	..	..	..	3j.
Carbonate of potash	..	..	..	3j.
Soft water	..	..	..	Oiv.

Dissolve by heating carefully, and when cold add to the following tincture:—

Saffron	..	..	..	3ss.
Perfume essence	..	..	..	3ij.
Rectified spirit	..	..	..	3x.
Water	..	..	..	3viiij.

Then make up to a gallon with water.

The following perfumes may be used:—Ol. lavand., mxl.; ol. caryoph., mx.; otto rose and ol. bergam., of each m xv.; ess. moschi, 3j.; dissolved in 2 oz. of spirit.

235/69. *W. H. D.*—Chillie-paste.—*C. & D.*, February 13 1892, page 249.

237/47. *Heri*.—We have repeatedly stated that can, tharidin and similar stimulants have very little, if any effect in Promoting the Growth of the Beard unless they are used up to the point of blistering. The person who retails such preparations must be possessed of a certain degree of sardonic humour if he is able to convince the users that their beards are growing under the treatment. Cantharidin and pilocarpine may be used in the proportion of 1 gr. to the ounce, with "soft sawder" *ad lib.*

233/25. *Blanche*.—We do not know how hair can be made grey by bleaching. The process is a secret one. We suspect that it consists in the use of ozonic ether and alkalies, but we have no personal experience of the matter, and repeated inquiries have failed to bring out a response.

253/51. *Yorkshireman*.—We do not see how we can answer your question. A good many people begin business with 100% borrowed capital. When it is reasonable to expect that any of that money should be paid back is a question which is beyond us. We know what is the frequent fate of such money.

237/22. *Lobengula*.—(1) The change in the colour of the antipyrin mixture is due to interaction between it and nitrous acid. Spirit of nitre should not be given along with antipyrin—the product contains hydrocyanic acid. (2) If you wish to prevent metals of any kind from oxidising smear with vaseline. (3) The formula for obesity which you refer to contains secret preparations, and we cannot recommend it. Try ext. fuci vesiculosi fl.

237/74. *Iolo*.—Your first recipe is the better one for Anisated Lung-balsam, but a slight modification is necessary, which is indicated in the following:—

Spt. ohloroforml..	..	..	..	..	5ij.
Vin. ipecac.	..	..	..	..	5ij.
Tr. camph. co.	..	..	..	..	3ss.
Glycerinl..	..	..	..	..	3ss.
Syrup. toluanti	..	..	..	..	3ss.

M.

Neither of the formulæ is quite suitable for the label, which we also alter:—

ANISATED LUNG-BALSAM.—Composed of aniseed, tolu, ipecacuanha, and other invaluable balsamic and expectorant ingredients. Strongly recommended for coughs, colds, bronchitis, hoarseness, asthma, consumption, difficulty of breathing, and all other affections of the chest, throat, and lungs. Doses: For an adult, one teaspoonful three or four times a day; 13 to 16 years, 40 drops; 9 to 12 years, half a teaspoonful; 5 to 8 years, 20 drops; 2 to 4 years, 10 drops. Not intended for infants. Shake the bottle. 9½d., 1s. 1½d., and 2s. 9d. per bottle.

You seem to be frightened of tr. camph. co., ½ drachm of which is a fair dose for a cough.

237/65. *Dyspepsia*.—As succinct an account of Indigestion as you could possibly read is contained in the *C. & D.*, May 20, 1893, page 693. This probably may satisfy all your requirements; if not, see Dr. Lauder Brunton's book on "Disorders of the Digestion" (10s. 6d.).

237/60. *D. G. H.*—Codeia and Glycerine Jelly (Hardwick):—

Codeine	..	..	..	..	72 grains.
Citric acid	..	..	..	..	720 "
Gelatine	..	..	..	..	6 oz.
Glycerine	..	..	..	..	36 "
Oil of lemon	..	..	..	..	1 drachm.
Toluiated water	..	..	..	..	30 oz.

The water is made according to the B.P. directions under Syrupus Tolutanus. In 25 oz. of it soak the gelatine, and when soft add the glycerine, and heat on a water-bath until dissolved. Dissolve the codeine and citric acid in the remainder of the water, add to the hot jelly, then add the oil of lemon, stir well and pour into suitable-sized bottles.

See the DIARY, page 133, in regard to manieure goods.

236/72. *Goodwin*.—You will find a formula for White Oils in *C. & D.*, July 29, 1893, page 176. This is what you want.

236/67. *Barlikorn*.—The Crystallisation of Extract of Malt is, as you suppose, due to the change of the sugars in the extract (especially maltose and glucose) from the amorphous to the crystalline state. It cannot be prevented. The subject has been on the blue-list of the Pharmaceutical Conference for several years, but no one appears to care to venture an explanation. You may take it, however, that the properties of the extract are not altered, and you may tell your customers that it is a similar thing that happens in honey when it crystallises.

236/63. *Westgate*.—(1) The recipe given under "Asthma-cigarettes," in DIARY, page 356, will suit for Herbal Smoking-mixture for Asthma. (2) Have you tried the ess. white rose, as given in DIARY, page 362? See also *C. & D.*, August 19, 1893, page 324.

250/42. *F. M.*—Warburg's Tincture.—The formula will be found in the DIARY, page 382, but please note that the quantities of the second, third, and fourth ingredients are given in drachms (ʒ) instead of ounces (℥).

248/60. *Curious*.—Some samples of oxide of cobalt appear to be more difficult to dissolve than others. Double the quantity of nitric acid, and heat. We prefer the nitrate of cobalt, which dissolves in water without trouble. An ounce of it to the gallon is the minimum to use.

251/50. *Alvin*.—We suppose that "hahacarus" is the nearest the hatcher can get to "herbaceous." It is hielant, like himself. See Beef-spice in the DIARY, page 356. This is probably what he means.

250/54. *B. G.*—Marking-ink Stains.—From the result you have so far obtained with potassium cyanide we think there can be little doubt that the ink has been a silver one, and you are on the proper track. Have the articles washed in the usual manner, and if the stains are not removed proceed again to touch them with the cyanide solution, which should be saturated. In half an hour dip the spot in warm water, and touch it with the solution again. We have rarely failed to get out spots when proceeding this way, but of course one must possess one's soul in patience when dealing with fine family linen.

248/41. *Emulsio* makes a Pancreatized Emulsion of Cod-liver Oil containing the oil, yolk of egg, pancreatin, &c., and he complains that it develops a very bitter taste in a short time. What is the cause of this, and how may it be obviated? It is simply due to pancreatic digestion, which has gone on to the bitter stage. [We do not see how that can be stopped unless a pancreatin free from trypsin is used or pancreatisation is effected and stopped before emulsification. For our part, we should not put it in at all.]

250/15. *Juno*.—(1) The statement is an error by a contributor. You must take up the whole three books of Euclid. (2) What good would it do you to fight the General Medical Council? You must be sure of what your rights are before you speak of fighting for them. As you passed the Irish Pharmaceutical Preliminary before December 31, 1891, you are entitled for medical purposes to have it accepted *pro tanto*. If the branch registrar refuses it (which cannot happen until you submit to him, first, that certificate; second, certificate for the other subjects, and certificate of having commenced medical studies), communicate with the Secretary of the Pharmaceutical Society of Ireland.

251/28. *H. D.*—Get the last Edneational number of THE CHEMIST AND DRUGGIST, September 16, 1893, price 4d.

Next Week.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

Tuesday, March 13.

London Commercial Sale-rooms, Sale-room No. 3, Mincing Lane, at 3 P.M. Address on the Currency Question, by Sir William Houldsworth, M.P.

Imperial Institute. Illustrated lecture at 8.30 P.M. on "Tasmania," by the Hon. John Wallop.

Royal Institution, at 3 P.M. Professor C. Stewart (President, London Section) on "Locomotion and Fixation in Plants and Animals."

Wednesday, March 14.

Pharmaceutical Society of Great Britain, at 8 P.M. Professor Dunstan, F.R.S., on "The Nature of Aconitine."

Thursday, March 15.

Chemists' Assistants' Association. Paper: "The Chemistry of Agriculture," by T. Tickle.

Imperial Institute. Illustrated lecture at 8.30 P.M. on "The Rabbit Plague in Australia," by Mr. Walter Dalrymple Severn.

Chemical Society, at 8 P.M. Professor Dunstan and Dr. Bossi on "The Action of Hydroxylamine on Formic Aldehyde."

Meeting of chemists of Glamorgan mining districts "to discuss trade and other matters." 4 P.M.

Midland Pharmaceutical Association. Smoking-concert at the Colonnade Hotel.

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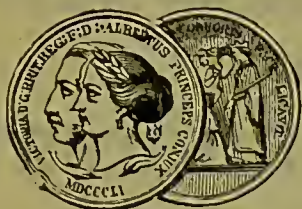
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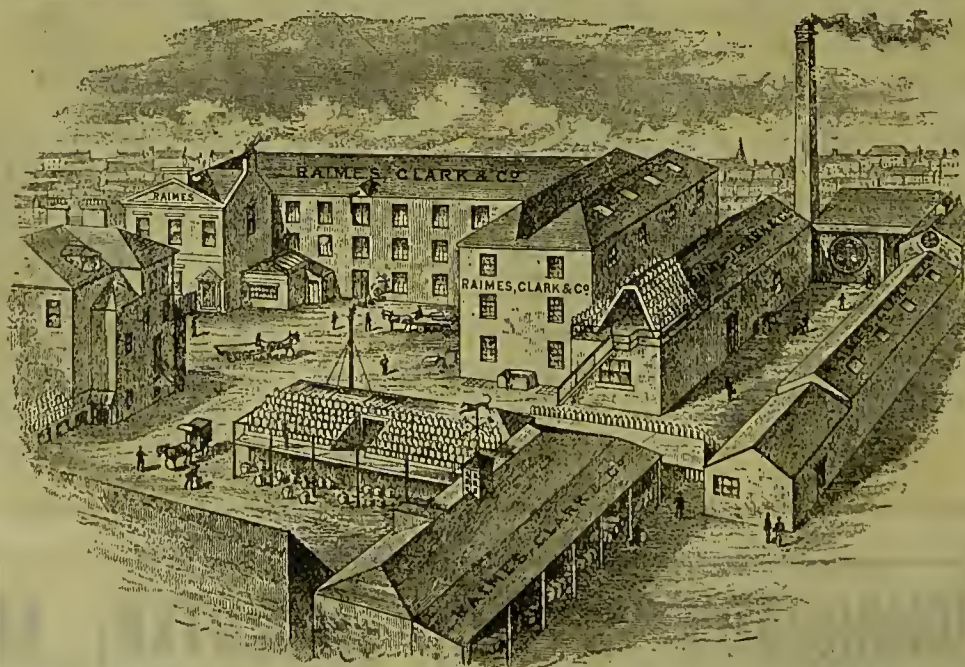
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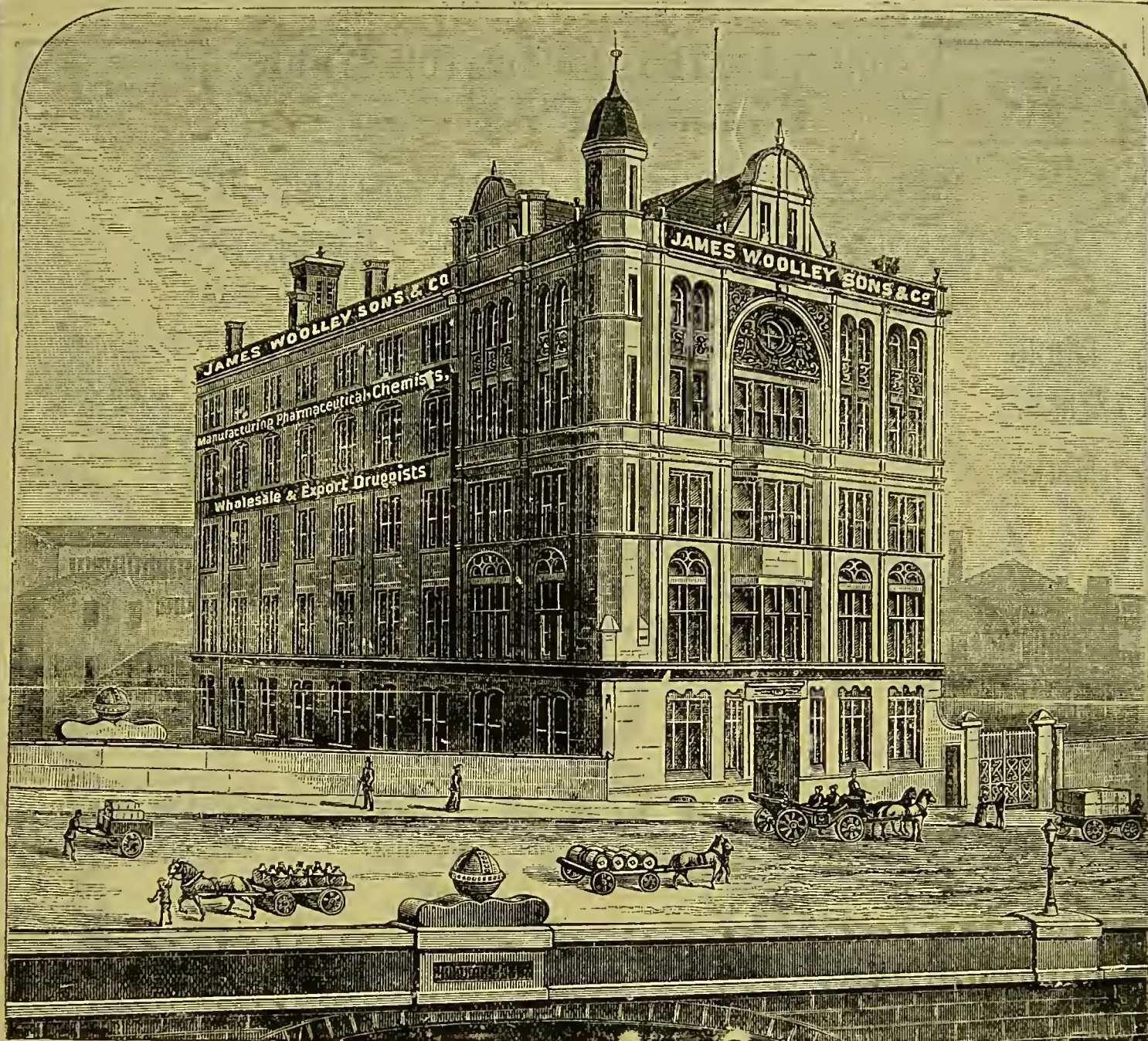
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See "LANCET," December 9th, 1893, page 1486.

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Packed in Gross Screw-capped Bottles	10 grs. lots	50 grs.	100 grs.	Packed in Gross Screw-capped Bottles	Per grs.	10 grs. lots	50 grs.	100 grs.	Packed in Gross Screw-capped Bottles	Per grs.	10 grs. lots	50 grs.	100 grs.
1d. per gross extra.	grs.			1d. per gross extra.					1d. per gross extra.				
Antibilious	1/-	11d.	10d.	9d.	Hamilton	1/1	1/-	11d.	10d.	10d.	Podophyllin	1/-	11d.
Assafœtida	8d.	7d.	6½d.	6d.	Indigestion	1/-	11d.	10d.	9d.	1/2	1/-	11d.	10d.
Bland	6d.	5d.	4½d.	4d.	Laxative	10d.	9d.	8d.	7d.	8d.	Rhubarb	9d.	8d.
Castor Oil	9d.	8d.	7d.	6d.	Little Liver	5d.	4½d.	4d.	3½d.	8d.	Squill	8d.	7d.
Colocynth	1/-	11d.	10d.	9d.	Liver	1/-	11d.	10d.	9d.	8d.	Steel and Aloes	8d.	7d.
Dandelion	1/-	11d.	10d.	9d.	Mercurial	8d.	7d.	6d.	5d.	1/-	Tonic	1/-	11d.
Female, Al. et Ir.	8d.	7d.	6d.	5d.	Neuralgia	1/-	11d.	10d.	9d.	9d.	Vegetable, &c.	8d.	7d.
Gregory	1/-	11d.	10d.	9d.	Opium	1/-	11d.	10d.	9d.				

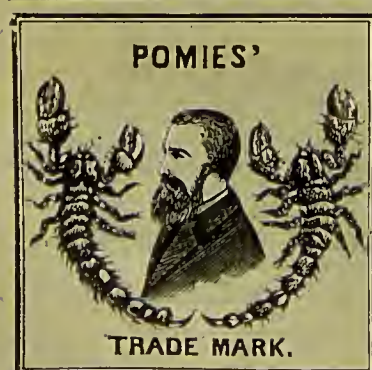
The Pills are also put up in glass tubes containing 4, and the Little Liver 8 in each tube, and sell at One Penny per tube. They are packed on cards of 3 dozen, and in gross boxes with glass lid at 7/- per gross tubes assorted; also in screw-capped bottles to sell at 6d., 3/6 per dozen, 36/- per gross bottles; 6 gross assorted 1d. tubes in handsome mahogany case, 42/-.

Private recipes compounded, rolled, and coated, in 8 to 10 days, made all sizes from ½ to 4 grains. The formula for any Pill will be given when required. Wholesale Agents—HATRICK & Co. (LIM.), 31 Snow Hill, London. E.C.

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TRADE MARK.

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Laboratory,
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POMIES' OPHTHALMIC POWDERS AND MEDICINES

FOR THE RAPID CURE OF DISEASES OF THE
EYE, WITHOUT OPERATION.

All Chemists should keep it. Price List sent on demand.

Twenty years' successful treatment in cases of Cataract, Amaurosis, Optic Atrophy, Inflammation of the Eye, Impairment of Sight, and other disorders, have established sufficiently the superiority of this mode of treatment.

GUIDE TO THE TREATMENT OF DISEASES OF THE EYE, without operation, by E. Pomies, Oculist, late Surgeon in the French Army, Gold and Silver Medallist, sent on demand to all Chemists for distribution.

The Ophthalmic Medicines are prepared and sold at the Ophthalmic Institution, 32 Euston Square, N.W.

They may be obtained also from Wholesale Dealers of Patent Medicines through the United Kingdom.

(MORSTADT) **CACHETS** AND CLOSING APPARATUS.

IMPROVED AND PATENTED BY T. CHRISTY & CO.

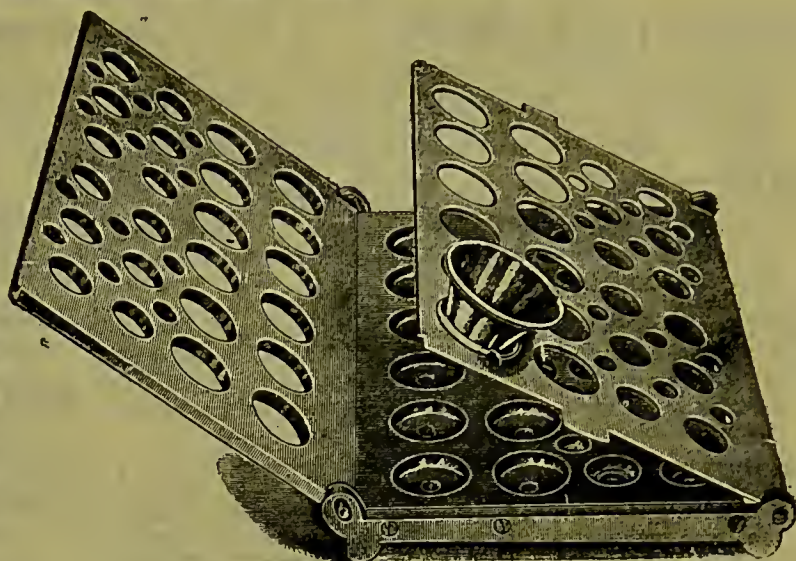
The Apparatus figured closes one dozen Cachets at once, of six different sizes, in an extremely simple, quick, and neat manner, without any adjustment of the apparatus to suit the different sizes. It prevents the powder from getting between the edges of the Cachets, and ensures their being firmly and accurately closed by simply passing the damping roller over all the lids of the Cachets, closing the apparatus, and pushing out the filled Cachets.

Net Prices of Apparatus Complete, including

	Case -	Nekl.	Zinc.
A, closing 12 Cachets each of No. 000, 0, 0½, 1, 1½, 2	..	30/-	20/-
A, " " " without 000	..	27/6	18/6
B, " " " of No. 0, 0½	..	16/-	12/-
C, " " " of No. 1, 1½, 2, and 000	..	18/-	13/-
C, " " " 1, 1½, and 2	..	16/-	12/-
Single Apparatus, to close one Cachet at a time of all sizes, including 000	..	6/6	
Single Apparatus, to close one Cachet at a time of 0, 0½	..	2/6	
" " " " of 1, 1½, 2	..	2/6	

No.	CACHETS.	Per 1,000
000, holding 1½ grain of Quinine	..	5/-
0, " 3 to 4½ grains of Quinine	..	5/-
0½, " 6 to 7½ " "	..	5/-
1, " 9 to 10½ " "	..	5/-
1½, " 10½ to 15 " "	..	6/-
2, " 15 to 18½ " "	..	7/6

Enbossing Name and Address, 6d. extra per 1,000 Cachets.
Die for 0 and 0½, 2/6; and for 1, 1½, and 2, 2/6



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Absolutely pure. The original preparation, invented and introduced to medicine by Mr. Schacht in 1855. Its distinct superiority is universally admitted. In $\frac{1}{2}$ lb., 1 lb., 2 lb., and 5 lb. bottles. Dose: 1 drachm diluted. When ordering, please to specify "SCHACHT'S."

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Fluid Pepsine of extraordinary activity—tasteless, odourless, attractive to patients, and reasonable in price. Every teaspoonful when tested by the official B.P. process is *guaranteed* to effect the solution of 1,000 grains of albumen. Peptic power is the only test of value. Most of the foetid and repulsive dry Pepsines have proved worthless. In 4 oz. bottles, 2s. 6d. each; and larger sizes, for dispensing, at a cheaper rate.

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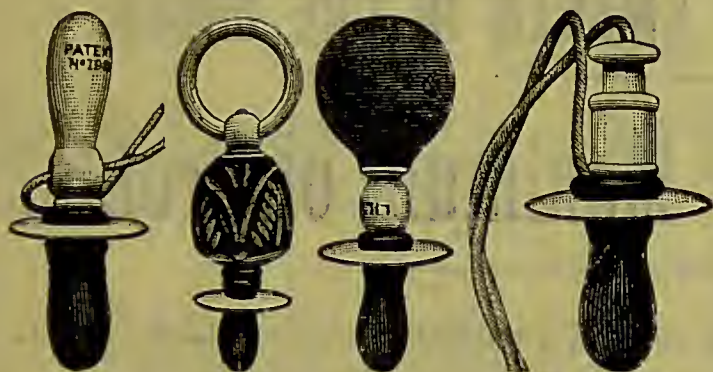
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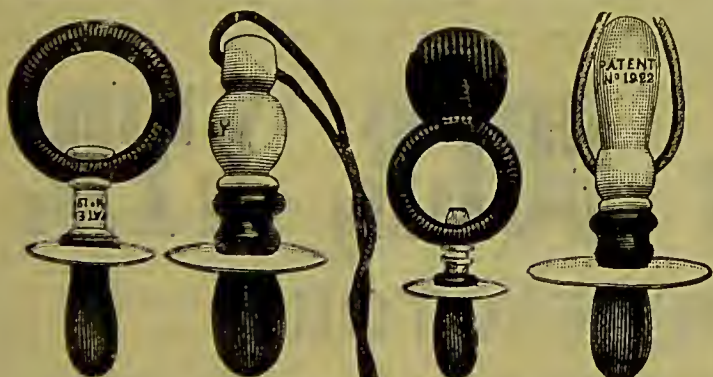
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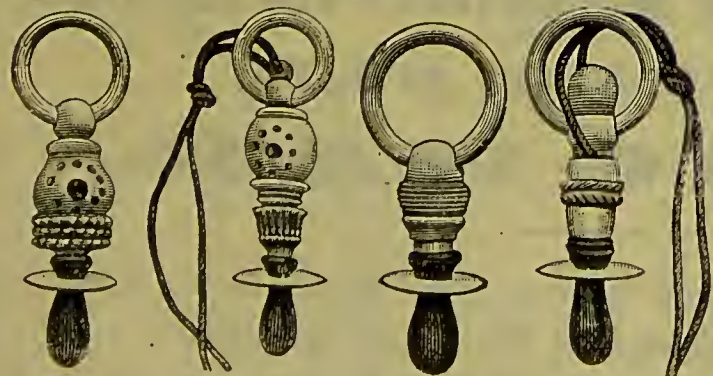
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6d. CRYSTAL PALACE JOHN BOND'S PROPELLING MARKING INK PENCIL. 1s.

For Marking Linen, Cotton, Silk, &c. **URNS INDELIBLE BLACK** whilst writing. No heating required, and cannot be removed by any chemical means. Given away, and enclosed with every Pencil, Voucher entitling Purchasers to their Name or Monogram Rubber Stamp. Handsomely mounted on Attractive Show Cards. Wholesale Price, 36s. and 60s. per gross. Send for Sample dozen, 3s. and 5s., Carriage Paid.

Original Patentee, and no Imitator, as decided by law.

CAUTION IN ORDERING THROUGH THE WHOLESALE.

Please state Crystal Palace John Bond's (Daughter's) Ink is required, and kindly examine each parcel received, as complaints are daily made of imitations being substituted. The Trade are invited to give all particulars where so deceived. Blue Wrapper Inks, 1s. and 6d., in 1-dozen boxes. Pedestals, Ink, Pen, and Linen Stretcher, 36s. and 72s. per gross respectively. A Glass-stoppered Bottle of Marking Ink, three times the size of an ordinary 1s. Bottle, and Glass Linen Marker, complete, 1s. 6d.; 90s. per gross. Marking Ink Cabinets, 90s. per gross. 1s. Bijon Marking Ink Cabinets, 72s. per gross. 3d. and 6d. per Bottle. Unrivalled for Mending China, Glass, Wood, &c. Handsomely got up in attractive and artistically covered Boxes. Wholesale price, 18s. and 30s. per gross. *N.B.*—A Special Discount to Large Buyers.

UNBREAKABLE CEMENT

WANTED—PARTICULARS FROM THOSE ISSUING LISTS FOR WHICH ADVERTISEMENTS ARE TAKEN.

SEND FOR NEW ILLUSTRATED PRICE LIST, POST FREE, FROM

WORKS AND OFFICES, 75, SOUTHGATE ROAD, LONDON. N.

CHEAPEST HOUSE IN THE TRADE FOR EVERY DESCRIPTION OF RUBBER STAMPS.

SEND FOR QUOTATIONS BEFORE PLACING ORDER ELSEWHERE.

HOCKIN, WILSON & CO.'S PAGE.

ONE REASON

Why we specially want Shippers to ask us for prices when buying Druggists' goods is because we hold large and varied stock and can supply promptly.

ANOTHER

REASON

Is that we thoroughly understand the Export Trade, and know what buyers want.

WANT ANY

FEEDING

BOTTLES?

We are fitting all kinds. We use no common indiarubber that perishes. We have box top, glass-screw stoppers, green and white bottles. Prices from 27/- gross.

EVERYBODY

KNOWS

That this the season to buy Saline. The question is, whose to buy? Our

GRAPE JUICE

SALINE

Is as good as it can be made.

In self-opening tins with coloured label, 3/- doz.
In 8-oz. Cheltenham, each in carton, 8/- doz.
6 doz. of the larger size, with buyer's own name on.

NOBODY LIKES

To be worried by Insects, and you won't be if you buy The Acme Brand

INSECT

POWDER

1d. black and gold, decorated tins.. 6/- gross.
3d. attractively-labelled tins. .. 12/- "
6d. " " " .. 24/- "
1/- " " " .. 39/- "

BAD SMELLS

WON'T STOP

Where disinfectants are used. The Acme Brand

CARBOLIC

POWDER

IS GOOD.

1d. packets, half-gross boxes .. 6/6 gross
4d. tins, attractive wrapper.. .. 2/- doz.
6d. " decorated black and gold .. 3/6 "
1/- " " " " .. 6/6 "
This bears no name, only Acme Brand.

THE ORDER OF

THE BATH

Is now to use a glove instead of the old-fashioned flannel.

2 doz. pairs assorted 6d. gloves, in glass-top box, 3/3 doz. pairs; also white Tureo from 1/9 pair.

THE ACME

LOOFAH BATH

MAT

Is a real luxury; it is always dry and warm to the feet.

In two sizes, 18/- and 21/- doz.

SOUND TEETH

Are often spoiled by using bad Tooth Powders. Our

TOOTH PASTES

and POWDERS

Are pure and good.

Acme Brand assorted Tooth Powder,
in 6d. tins 3/- doz.
Carbolic Tooth Powder, 3d. tins .. 15/- gross
" " " 1d. tins .. 8/- "
Rose, Quinine and Carbolic Powder,
in glass bottle with spoon .. 2/- doz.
Cherry Tooth Paste 3/6 "
Areca Nut " 3/6 "
Carbolic Tooth Paste in elegant
oval pots 4/6 "
The Acme Tooth Soap in round
celluloid boxes, stamped in gold
and silver, 1/-, 8/- doz.; 6d. .. 4/3 "

VULCANITE

WON'T RUST,

Therefore the

EUREKA

SPATULAS

Can't, as they are a steel knife covered with this material. They are easily

CLEANED

And can be used for Mercurial Ointments, &c.

BALANCED HANDLES.

3 4 5 6 7 8 9 10 inch
17/6 20/- 23/- 28/- 39/- 43/- 50/- 62/- doz.

We are Sole Agents for the United Kingdom and Colonies.

YES? YOU CAN

Have a really useful list of Sundries and Packed Drugs by writing to us for one.

CARLESS, CAPEL & LEONARD,

REFINERS OF BENZOLINE AND NAPHTHA DISTILLERS,

HOPE CHEMICAL WORKS, HACKNEY WICK, LONDON, N.E.

Telegraphic Address—"CARLESS HACKNEY WICK."

PETROLEUM OIL of best Brands; WATER WHITE OIL (high test);
CLEANING SPIRIT (for Dyers' Use); BURNING NAPHTHA and
SOLVENT NAPHTHA; GASOLINE (sp. gr. '650); BENZINE (sp. gr. '730);
BENZOLE, AUTOLINE, APOKATHARTIKON (Universal Cleaning Spirit),
and CARBURINE (SPECIALLY MANUFACTURED for enriching gas).

PETROLEUM BARRELS ALWAYS PURCHASED, DELIVERED AT ANY RAILWAY STATION OR WHARF IN LONDON.

HENRY MATTHEWS & CO.

LEWIN'S MEAD, BRISTOL,

DRYSALTERS, OIL MERCHANTS, IMPORTERS, BOILERS,
AND REFINERS,

MANUFACTURERS OF PAINTS, COLOURS, AND VARNISHES,

For Contractors, Painters, Coachbuilders, Shipbuilders, and Ship Stores; also of

GREASE FOR MILLS, RAILWAY WAGONS, CARRIAGES, CARTS, WATER-WHEELS, WIRE ROPES, &c.

Samples and Prices on application. Telegraphic Address—"HENRY MATTHEWS, BRISTOL."

£1,000,000

This is the sort of fortune many an old-fashioned Varnish Maker
has left behind him, but

PINCHIN, JOHNSON & CO.

23 Billiter Street, London, E.C.

Do not aspire to these big figures, but are anxious to prove that their

VARNISHES,

In 1 Gallon Cans free, as well as their

OILS AND COLOURS

are the BEST and CHEAPEST in the Market.

Telegrams—"PINCHIN LONDON."

WRITE FOR PRICE LISTS AND SAMPLES.

Telephone—No. 2241.

**FOUR
HIGHEST AWARDS**



Sydney, 1879.



Melbourne, 1880.

CROWDEN & GARROD

WHOLESALE BRUSH MANUFACTURERS.

(ESTABLISHED 1800.)

62 SOUTHWARK STREET, LONDON, S.E.

**BUY your BRUSHES from bona-fide Manufacturers,
and save intermediate profits.**

Apply for
Handsome Illustrated
Catalogue.

CROWDEN & GARROD'S "FALCON" TOOTH BRUSHES.

Have been justly celebrated for the last 40 years. They are made of selected Bristles, are WIRE DRAWN, CEMENTED, WAX BACKED, ensuring that no hairs come out. Every Brush warranted.



In handsome Show Boxes with Glass Top and pull-out Drawer, containing 1 doz.

In every variety of pattern. A, "Best Falcon," assorted, 6/- per doz. B, "Seconds Falcon," assorted, 3/6 per doz. C, Thirds, stamped "Unicorn," 3/- per doz. D, Fourths, stamped "London," 2/4 per doz.

CHILDREN'S TOOTH BRUSHES.

"Best Falcon," Wax Backed, assorted, 3/6 per doz.

"Seconds" " " " " 2/- " "

FORTUNE No. 29, 3/9

VIOLETTA No. 30, 4/-

BLEUETTE No. 28, 3/6

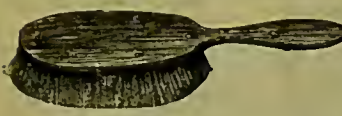
Quite New Patterns. Highly Finished.

HAIR BRUSHES.

A few out of our 300 patterns. Excellent quality & value.



F 43.
Oval,
Olivewood,
11 Rows
White Bristle
8/6 per doz.



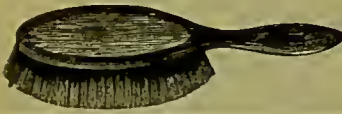
D 54.
Skittle,
Satin,
Screwed
Back
13 Rows.
17/- per doz.



R 27.
Oblong,
Satin,
Pinned Back,
11 Rows.
20/- per doz.



D 18.
Long Oval,
Rosewood
Back,
White Bristles
21/- per doz.



W 1.
Long Oval,
Rosewood,
Satin inlaid,
11 Rows.
21/- per doz.

W 2.
Do., 18 Rows,
24/- per doz.

300 pages,
4,000 Illustrations.

NAIL BRUSHES. 100 Patterns.



Bons, per doz., 4/4, 6/6, 8/8,
9/9, 11/11, 14/-, to 30/-.



Wood, per doz., 10/1, 1/4,
1/8, 2/6, 3/4, to 12/-.

The "HANDY."

Satinwood,
Solid Backs, K1,
Yellow Hair,
12/- per doz.



SHAVING BRUSHES.

60 PATTERNS.
Hog Hair, Bons, &c.,
2/- to 11/6 per doz.



Badger Hair,
Bone, &c.,
8/- to 33/- per doz.
In Cases, 18/- to 34/-
per doz.



C. & G.'s Patent
Indestructible.
Nickel-plated Bands
No loose hairs to
come out.
Hog Hair,
nicely finished,
8/-, 10/-, 12/- per doz.
Badger Hair, ditto
20/-, 25/- per doz.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S.V.R. Methylated Spirit and Finish on application.**
FINEST ORANGE WINE FOR QUININE.

GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.

JOHN OAKEY & SONS,

MANUFACTURERS OF

Glass and Flint Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels,
Pumice, Putty Powder, Crocus. Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish,
Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

OAKEY'S WELLINGTON KNIFE POLISH

Prepared expressly for Oakey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines.
Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

OAKEY'S NON-MERCURIAL SILVERSMITH'S SOAP,

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

OAKEY'S "POLYBRILLIANT" (REGISTERED).

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste.
Tins, 1d., 2d., 3d., and 6d. each.

WELLINGTON BLOCK BLACK LEAD,

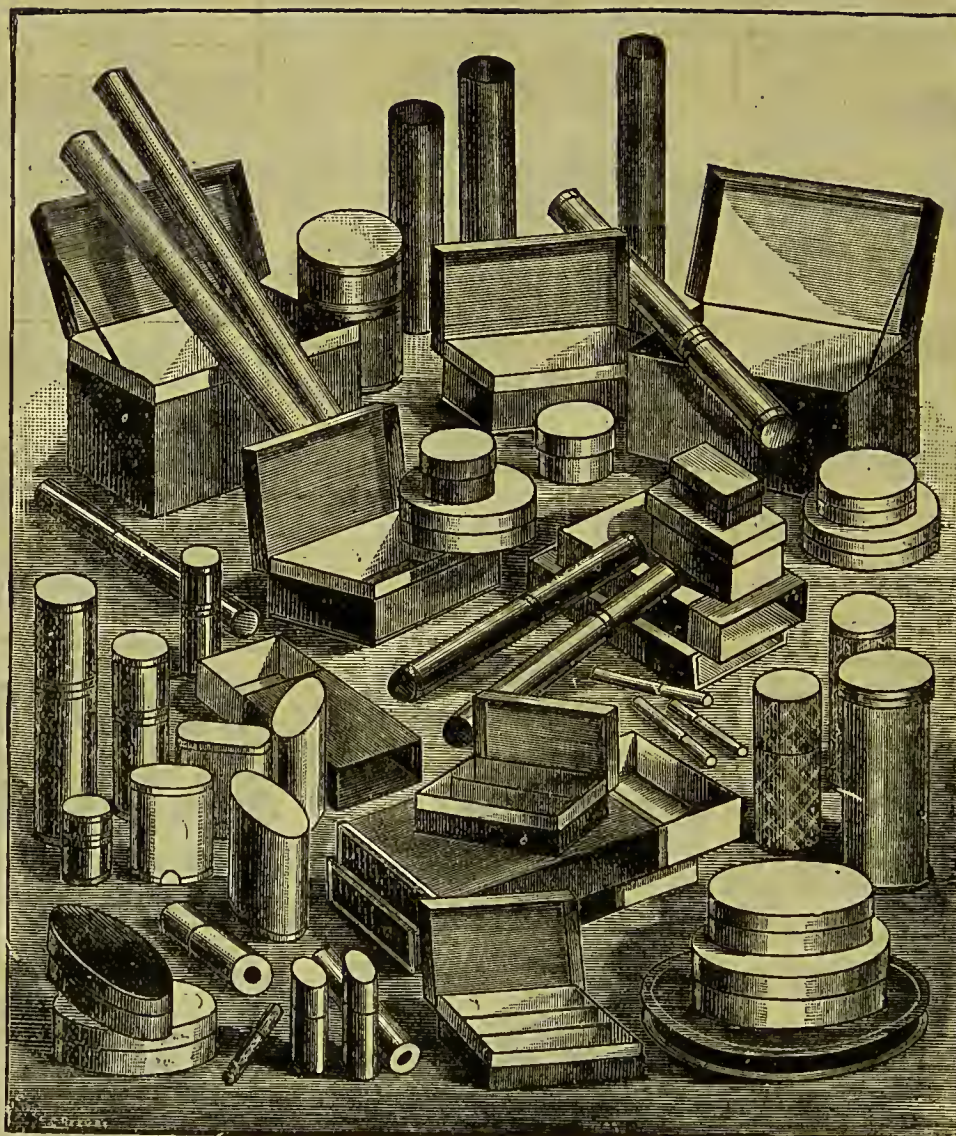
In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.

Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.

BOXES FOR

Baking Powder
Brushes.
Bottles.
Camphor.
Capsules.
Cotton Wool.
Disinfectants.
Confectionery
Essential Oils.
Perfumery.
Fancy Soaps.
Menthol.
Magnesia.
Marking Inks.
Patent Medicines.
Pills.
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Instruments.
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Powders.



Sponges.
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Tobacco.
Cigarettes.
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Purposes.
Coffee.
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Tooth Stopping.
Plasters.
Hair Preps.
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Cement.
Lozenges.
Horse Powders
And
For Export.

ESTABLISHED OVER HALF A CENTURY

Austin & Co.

PATENTEES AND MANUFACTURERS OF

FANCY CARD & OTHER BOXES, ROUND, OVAL, OR SQUARE.

Office and
Warehouse

8 GREVILLE ST., HATTON GARDEN, LONDON, E.C.

Steam Works—BROAD YARD, TURNMILL STREET.

ROBINSON & SONS, Ltd.

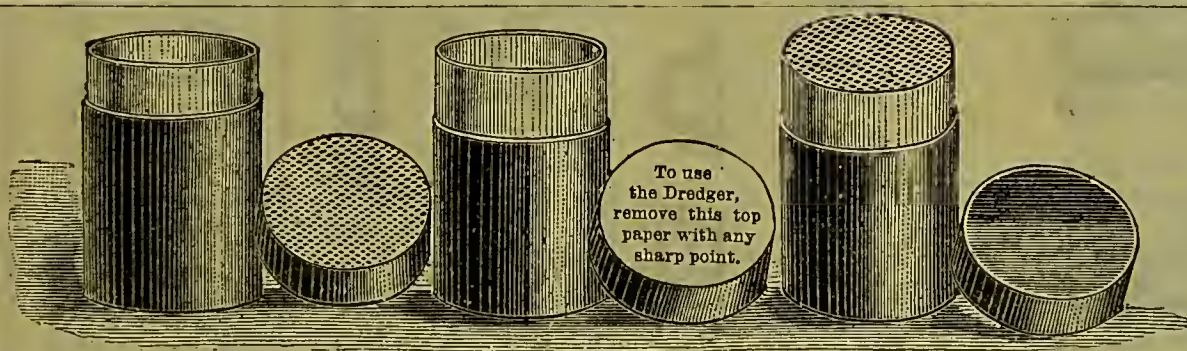
MANUFACTURERS OF CARDBOARD

PILL BOXES

User's Name and Directions printed on the Tops at from $\frac{1}{4}$ d. per gross extra.

INSECT POWDER BOXES.

COVERED IN ANY STYLE TO SUIT PURCHASERS.



A

B

C

A PERFORATED ZINC ON TOP OF LID.

B " " " but covered with a printed card, which can be removed to dredge the Powder.

C " " " INSIDE THE BOX, the shoulder being left loose for filling.

MANUFACTURERS AND PRINTERS OF

ROUND, SQUARE, AND FOLDING CARDBOARD BOXES

USED BY

Druggists, Drysalters, Homœopathists, Confectioners, &c.

ESTABLISHED 1839.

Honourable Mention for Cardboard Boxes, International Exhibition, 1862.

WHEATBRIDGE MILL & HOLMBROOK WORKS, CHESTERFIELD,
AND
55 FANN STREET, ALDERSGATE STREET, LONDON.

ROBEY & CO. LTD'S
BOTTLES & GLASSWARE.

ALL BUYERS

SHOULD SEND FOR OUR NEW

REVISED PRICE LIST
NOW READY.

NOVEL & ATTRACTIVE PATTERNS

AT MANUFACTURERS' WORKS PRICES.

OFFICE
 AND
 SHOW
 ROOM
 ON
 UPPER
 THAN
 STREET
 LONDON
 ENGLAND

HOME & EXPORT BUYERS BOTTLES & GLASSWARE

SUPPLIED AT WORKS REDUCED PRICES.

We Guarantee Greatest Variety in the Trade.

HAND-MADE SHOP ROUNDS AT REDUCED PRICES

LABELLING AND ENGRAVING.

SHOW CARBOYS, SWAN NECK & PEAR SHAPE.

CES
D
OW
MS—
W
PER
MES
EET,
DON,
LAND

GLASS BOTTLES



FEEDING BOTTLES.

No.	8½-inch Rubber Tube.	Small lots.	2-grs. lots.	
1.—	Green Bottles, Boxwood Top Corks,			
	White Fittings	25/-	24/-	} per gross.
3.—	Ditto, Black Fittings	27/6	26/6	
	White glass 2/6 per gross extra.			
	China tops 1/6 per gross extra.			
64.—	Green Bottles, Glass Screw Stoppers,			
	White Fittings	30/-	29/-	} per gross.
66.—	Ditto, Black Fittings	32/6	31/6	
	White Glass 3/- per gross extra.			

These prices include 1 doz. partitioned Wood Boxes. If Bottles are loose 1/9 per gross less.

Supplied each Bottle in Cardboard Box at 4/6 per gross extra.

DISPENSING BOTTLES.

BEST QUALITY,

SUITABLE FOR A HIGH-CLASS TRADE.

GREEN FLINT.

Flats (ordinary and round edges), Ovals, Direct Squares, Rounds and Octagons (plain, graduated, and lettered),

3	4	6	8	12	16 oz.
10/-	10/-	11/6	11/6	16/6	21/6 per gross.

WHITE VIALS (Plain and Graduated),

$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4 oz.
4/4	4/6	5/3	6/-	8/-	9/3 per gross.

SAMPLES ON APPLICATION.



FLAT—with Round Edges.

MINERAL WATER BOTTLES AND BOXES OF ALL KINDS.

Illustrated Catalogue containing full particulars sent on application to

KILNER BROTHERS,

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

S. MAW, SON & THOMPSON'S GREEN FLINT DISPENSING BOTTLES

Flat with Rounded Edges, or Oval.

QUININE TINT, BEST QUALITY.

WITH MAW'S TRADE MARK.

2	3 and 4	6 and 8	10	12	16	20	ounce.
7/6	9/6	10/9	14/-	16/-	21/6	27/-	per gross.

WITH THE  BRAND.

9/3	10/9	12/-	18/-	18/-	21/6	27/-	per gross.
-----	------	------	------	------	------	------	------------

ORDINARY TINT, SECOND QUALITY.

2	3 and 4	6 and 8	10	12	16	20	ounce.
6/8	8/-	9/6	12/-	13/6	18/9	21/6	per gross.

PRICES in CRATES OF 6 to 8 GROSS. CRATES FREE.

Not less than 1 gross of a size.

QUININE TINT, BEST QUALITY.

WITH MAW'S TRADE MARK.

2	3 and 4	6 and 8	10	12	16	20	ounce.
7/3	9/-	10/3	13/3	15/-	20/-	25/-	per gross.

WITH THE  BRAND.

9/-	10/3	11/6	17/6	17/6	21/-	26/-	per gross.
-----	------	------	------	------	------	------	------------

ORDINARY TINT, SECOND QUALITY.

2	3 and 4	6 and 8	10	12	16	20	ounce.
6/6	7/6	9/-	11/3	12/6	17/6	20/-	per gross.

USUAL DISCOUNT. NOT LESS THAN £5 WORTH CARRIAGE PAID.

S. MAW, SON & THOMPSON,
7 to 12 ALDERSGATE STREET, LONDON.

HEARN'S BOTTLES

ARE THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

HEARN, WRIGHT & CO. (Late E. A. Hearn & Co.), Wholesale & Export Glass Bottle Manufacturers, London, E. Eclipse Glass Works, Chatsworth Road, Clapton,

R. H. BARRETT'S PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/-; 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

R. H. BARRETT,

FLINT GLASS BOTTLE WORKS,
THE OVAL, CAMBRIDGE HEATH, LONDON, E.
Telegraphic Address—"FOREFRONT LONDON."



Telephone
1365.

The BEST

Telegraphic Address—
"Fish, London."

BOTTLES.

STRONG, PRETTY, NOBLE SHAPES.

Dear Sir,

When you Want Bottles next time, don't forget to drop
an enquiry to Yours faithfully,

JOHNSEN & JORGENSEN.



GLASS BOTTLES

OF EVERY DESCRIPTION.

Revised Price List on Application.

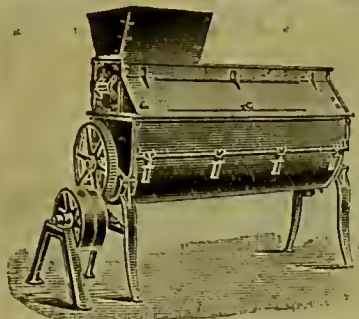
FEEDING BOTTLES AT LOW RATES.

Write for Prices of any kind of Bottle required to

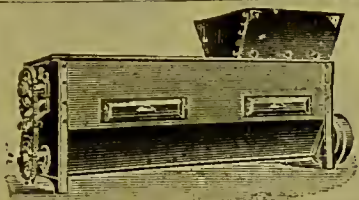
E. YOULDON,

East London Glass Bottle Warehouse,
36, 38, & 40 GREAT GARDEN STREET, WHITECHAPEL, LONDON, E.

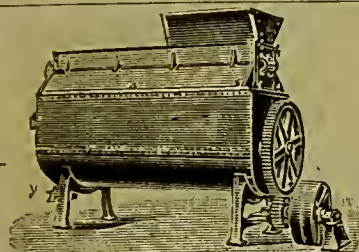




GEAR-DRIVEN SIFTER & MIXER.



"RAPID" SIFTER, $\frac{1}{2}$ ton capacity.



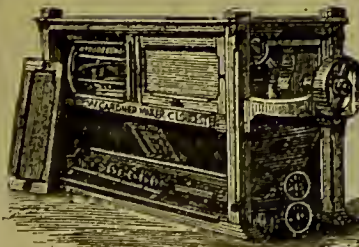
SIFTER & MIXER, $\frac{1}{2}$ ton capacity.



WORM-BOTTOM "RAPID" SIFTER.



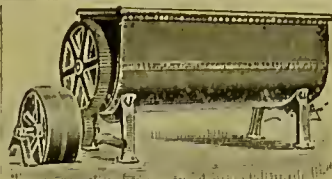
OPEN-BOTTOM "RAPID" SIFTER.



CENTRIFUGAL DRESSER, for Fine Powder Sifting.



Hopper-Bottom "RAPID" SIFTER, "RAPID" MIXER, $\frac{1}{2}$ ton capacity.



GARDNER'S PATENT "RAPID" SIFTERS & MIXERS

Are made in many styles to meet requirements of the trade, and are acknowledged to be the **BEST MACHINES** for **BREAKING LUMPS** and **SIFTING** and **MIXING** every class of **dry POWDERED GOODS**.

HUNDREDS WORKING ON

- | | |
|--------------------|----------------------|
| Baking Powders. | Colours. |
| Custard Powder. | Manures. |
| Tooth Powders. | Spices. |
| Seidlitz Powders. | Fancy Flours. |
| Condition Powders. | Confectionery. |
| Sherbet, Kali. | Sugars. |
| Cattle Foods. | Liquorice Powders. |
| Infants' Foods. | Perfumes. |
| Pig Powders. | Plate Powders. |
| Egg Powders. | Snuff. |
| Soap Powders. | Poultry Foods. |
| Magnesia. | Coffee and Chicory. |
| Starch Powders. | And similar powders. |

MANY REPEAT ORDERS HAVE BEEN RECEIVED.

Sizes range from 7 lbs. to $\frac{1}{2}$ ton at one operation, and prices from 48/- to £120 each, for large or small users. and on page 65 of THE CHEMIST AND DRUGGIST for March 18, 1893, prices and capacities of many of the machines here illustrated can be obtained.

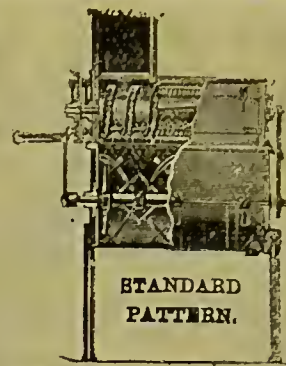
GRINDING MILLS AND DRESSING MACHINES

Of every kind in stock or in progress.

CATALOGUES, &c., FREE—

**WM. GARDNER, ENGINEER, &c.,
GLOUCESTER.**

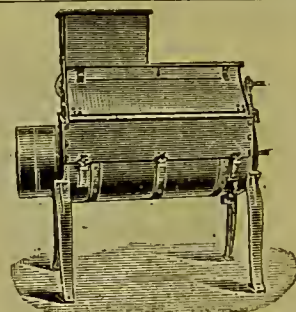
Cables and Telegrams—"GARDNER GLOUCESTER."



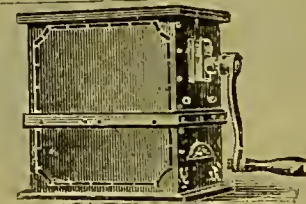
SIFTER & MIXER, for Hand.



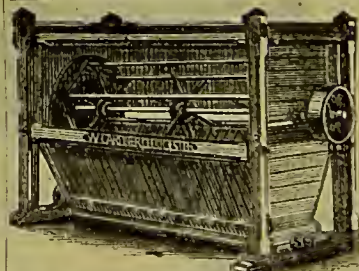
"RAPID" SIFTER, on Iron Stand.



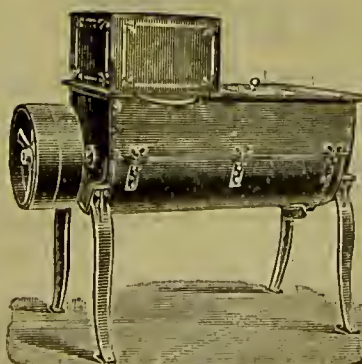
SIFTER & MIXER, for Power.



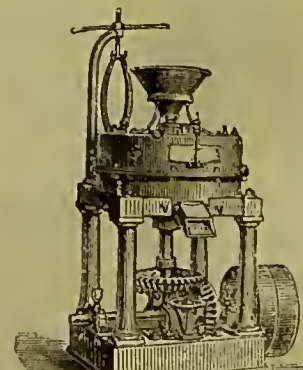
GARDNER'S "INDISPENSABLE".



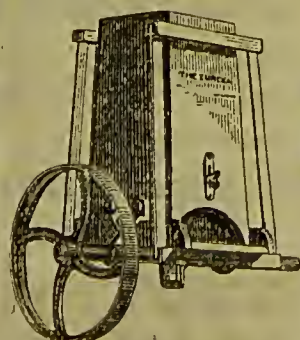
GARDNER'S REEL DRESSER.



"RAPID" MIXER, Hopper Top.



STONE GRINDING MILL & FRAME.



GARDNER'S FEEDER.

ESTABLISHED 1833.
HORSES.—LIEUT. JAMES'S BLISTER.



CAUTION.

The annexed Label is at the top of every Pot of the **ORIGINAL** and only **GENUINE BLISTER.**

The Messrs. Barclay & Sons, 95 Farringdon Street, London, and Messrs. Raimes & Co., Edinburgh, are now and have been Agents 57 years.

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And by all Chemists, in Pots, 1/6, 2/9, 5/-, 9/-, and 16/-.

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Advertised in "Bell's Life" 54 years. Beware of Spurious Imitations.

BUY THE BEST
OIL
PUMP

AND SAVE

OIL, TIME, MONEY.

THOUSANDS IN USE.



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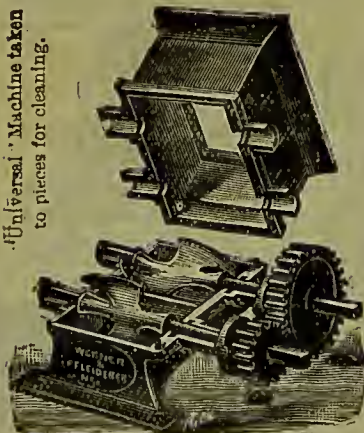
Who have given up this part of their business, and it is our intention to continue same.

We hold a Good Stock, and can give Prompt Delivery.

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Universal Machine taken to pieces for cleaning.



Size 3, Type I., for 1-lb. Mass.

THE "UNIVERSAL"
Kneading & Mixing Machine,
 Used by all the largest Pill Makers.
 SUITABLE ALSO FOR
 OINTMENTS, POWDERS,
 AND MASSES
 of any
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PILL MASSING MACHINES.

PILL
PIPERS,
CUTTERS,
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"SPIRAL BRUSH"
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 (WITH INTERCHANGEABLE SIEVES),
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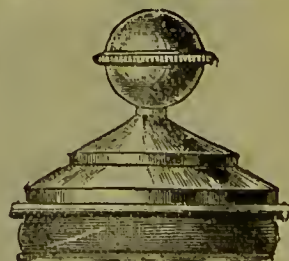
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AIR-TIGHT CHEMIST JAR.

A slight turn of the knob presses the indiarubber Band against the glass, and renders the vessel absolutely air-tight. The Stopper is made of pure Nickel, of handsome shape.

INVALUABLE FOR SHOW BOTTLES, CHEMISTS, CONFECTIONERS, &c.

Samples and Prices of all Chemists' Sundriesmen.

C. MELIN,
 37 CRUTCHED FRIARS, MARK LANE, E.C.



Section of the Nickel Stopper when closed.

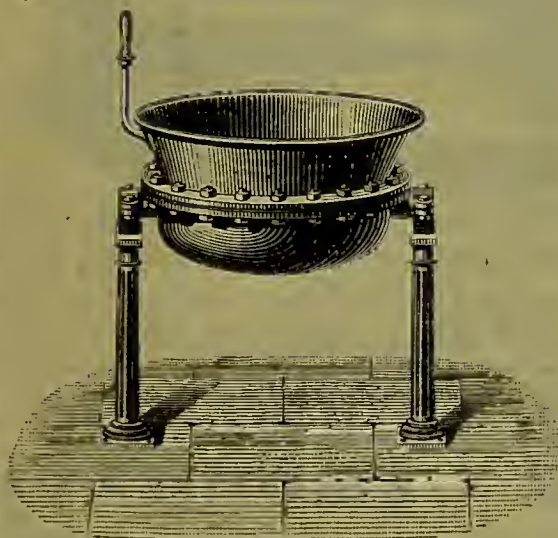
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WITH VERTICAL TUBES.

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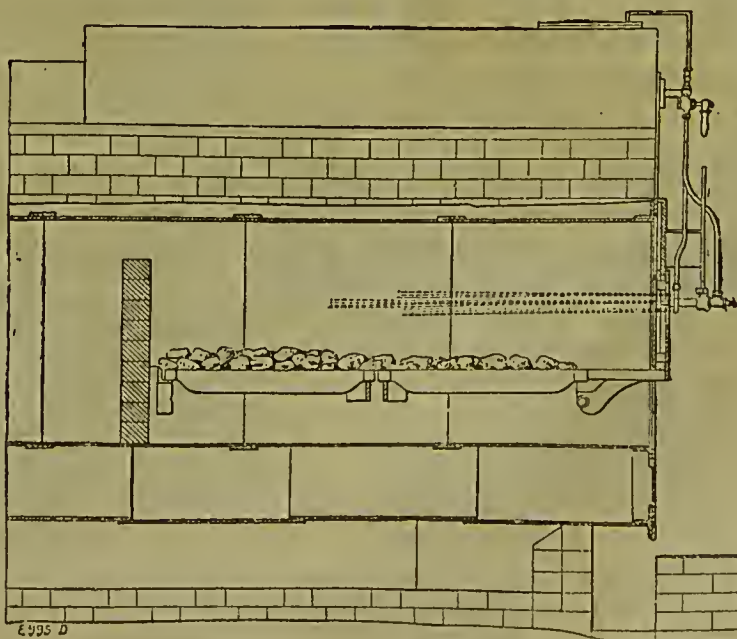
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By this system Liquid Fuel and Air
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**PERFECT COMBUSTION,
ENTIRE ABSENCE OF SMOKE,
INTENSE REGULAR HEAT,
AND
GREAT ECONOMY OF FUEL.**

One Ton of Oil = Two Tons of Coal.

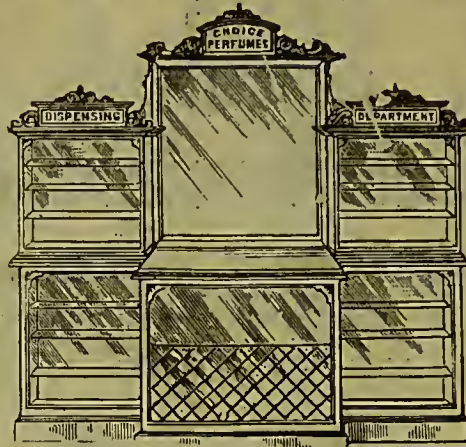
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"THE CHEMIST" DISPENSING COUNTER.

6 feet long by 2 feet wide .. £24
If the Dispensing Screen only .. £12

This handsome Dispensing Counter is manufactured in Spanish mahogany, and of the best workmanship, so that it will stand any climate. The counter has a solid mahogany top and plate-glass case front. The centre part fitted to take sponge. A mahogany screen on top, consisting of two plate-glass cases, with shelves inside, and large plate-glass mirror in the centre, and three glass tablets with gold writing in ornamental mahogany carved work. The back of screen fitted with small shelves and a glass poison-cupboard. The inside of counter fitted with strong counter-drawers, label and cork drawer, open shelves, &c.

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In consequence of inferior Second-hand Goods being sold for our make, we have found it necessary to protect our reputation for best work with a Trade Mark, as above, and unless goods are so stamped we cannot be answerable.

BOWLING & GOVIER,

Manufacturers of High-class Shop Fittings,
GUN STREET, BRUSHFIELD STREET,
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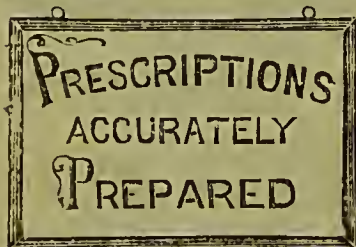
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SHOPFITTER,

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Bent-top plate-glass Counter Showcase, in French polished mahogany, or ebonized, with two upright mirror plate-glass fronted shelves, and table in centre for serving over, and mahogany falls at back lined with mirror plate glass, inside fitted with crimson velvet trays—if 5 ft. long, 18 in. wide, 8 in. high (total height 13 in.), £5 10s.; 5 per cent. off for cash.

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LAMPS, &c.,
For Chemists,
IN OPAL AND COLOURED GLASS.

Specially Low Prices to Advertising Firms ordering in large quantities.

EVERY DESCRIPTION OF GLASS DECORATION
AT LOWEST PRICES.



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GOOD AND CHEAP.

From Stores
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the works.

THE NEW SHAPE FLATS,
With rounded edges, or the ordinary kind, plain or graduated.

3 and 4 ounce 8/- per gross.
6 and 8 " 9/-

WHITE MOULDED PHIALS.
1 oz. 1 oz. 1½ oz. 2 oz.
3/6 3/9 4/6 5/3 per gross.

PANEL BOTTLES.
2 oz. 4 oz. 6 oz. 8 oz.
7/- 8/- 9/- 9/- per gross.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample Bottle sent free on application.

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Established 50 Years. Bankers—London and Westminster Bank.
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Leslies' Patent Pliable Tape-plasters, Fine Calico, Holland, or Pink Cambric, in decorated Tin Boxes, ½, ¾, 1 and 1½ in. wide, 1s. each, 9s. per doz.; extra widths, 2 in. and 3 in., 1s. 3d. and 1s. 6d. each.

Tapes, Silk, ½ in., 1s. each, 9s. doz.; 1 in., 2s. each, 18s. doz.

Leslies' Surgical Case Tape Plasters (assorted widths), 10s. 6d.

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LESLIES' LINT, ABSORBENT WOOL, BANDAGES, AND ALL SURGICAL DRESSINGS.

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Easiest, Quickest, Cheapest, and Best
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Gives WITHOUT LABOUR a BEAUTIFUL, SOFT, BRILLIANT, and LASTING POLISH, entirely free from Scratches, to all kinds of Metal Articles, from the most delicate Gold and Silver Jewellery, to Doorplates, Shop Window Brasses, Harness, Milk Tins, &c.

Read the following:—Fire Brigade Established by the Hanwell Lighting Board. "We do all our work with your fluid as quick as with any other, and it retains its brilliant polish six times as long. Without it our men would be continually on duty cleaning our engines and appliances. It has less action on Metal than most cleaning compounds. All the Brigades that I have recommended it to are very pleased with it."—W. ABBOTT, Senior Superintendent, Hanwell.

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FINE PORT (without tannin)
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S.V.R. and Methylated Spirit at lowest present prices.

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FOR CHEMICALLY-PURE ACETIC ACID

AT PRICE OF COMMERCIAL-PURE.

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THE WANT OF THE DAY!

NO MORE SOFT LINEN WHEN STARCHED.

Used In the Royal Laundries.

Should be used in Every House.



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Once Tried, Always Wanted.

Makes Old Linen Like New.

From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. Sir,—Having tried your "Starch Gloss," I certainly think it a great improvement—far superior to any I have tried.

To Mr. CRITCHLEY.

E. ELDER.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.

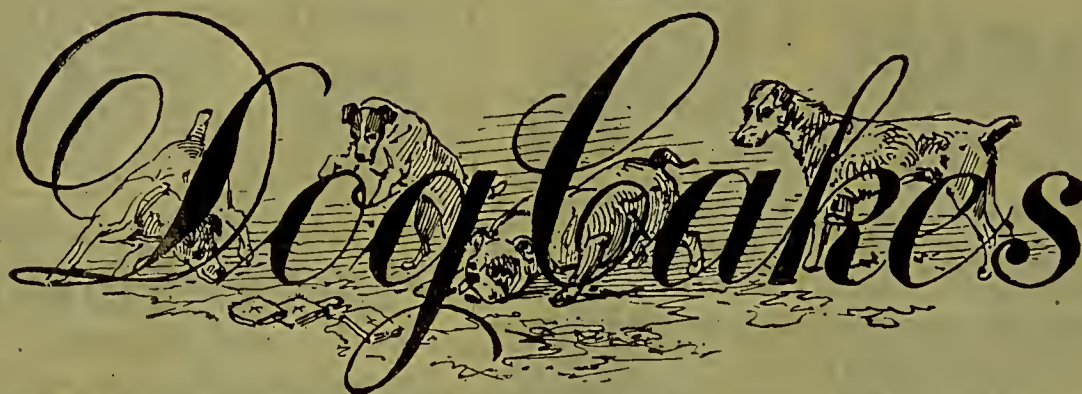
Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY

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SPRATT'S PATENT



Contain Meat and other ingredients, forming a complete food for small breeds. Sold in 7-lb. and 14-lb. Tins or Boxes, or $\frac{1}{4}$ -cwt., $\frac{1}{2}$ -cwt., or cwt. Cases.



Do not contain Meat, and form a valuable alternate diet with the Pet Dog Cakes. Highly recommended by Mr. A. J. Sewell, M.R.C.V.S., and the Veterinary Profession. Sold in 7-lb. and 14-lb. Tins or Boxes, or $\frac{1}{4}$ -cwt., $\frac{1}{2}$ -cwt., or cwt. Cases.



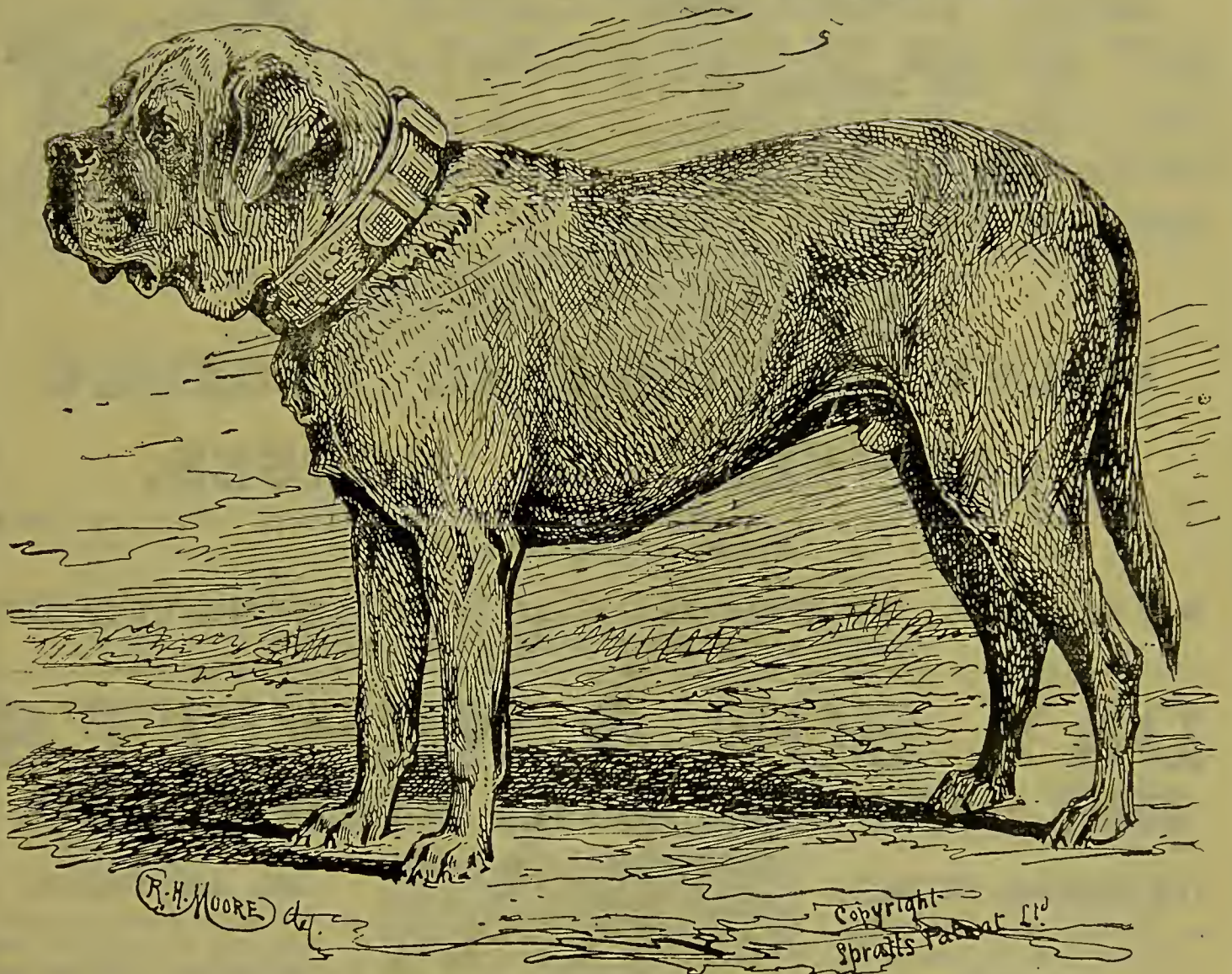
Assist Dentition, and form a valuable diet for Puppies after weaning. Sold in 7-lb. or 14-lb. Tins or Boxes, or $\frac{1}{4}$ -cwt., $\frac{1}{2}$ -cwt., or cwt. Cases.

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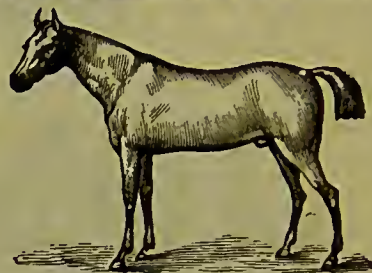
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For Curbs, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.

As used in the Stables of the Royal Families, Nobility, the leading Trainers, and largest Horse Owners throughout the World for over 60 years.

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DAY, SON & HEWITT'S NEVER FAILING HORSE, CATTLE & SHEEP MEDICINES.

THE CHEMICAL EXTRACT.

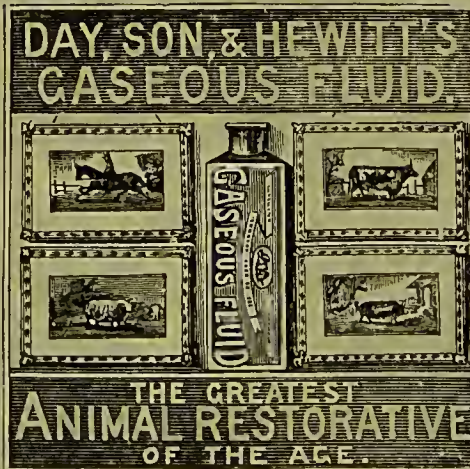
For Kicks, Cuts, Bruises, Sore Withers, Swellings Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Painful after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per Bottle.

THE CASEODYNE,

Used as Laudanum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Oedema or Enteritis, and for severe forms of Diarrhoea.

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Price 1s. 9d. per Bottle, 20s. per doz.

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For Colds, Indigestion, Costiveness, Yellow, Surfeits, Loss of Oud, Pleurisy, Hæmorrhoid, Red Water, &c. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of Calving or Lambing.

Price: for Cows, 13s. per doz.; for Ewes, 3s. 6d. per doz.

THE BRONCHOLINE.

For Husk or Hoose in Heifers, Calves, Sheep, and Lambs, also Tape-worms in Tega. No parasite can exist in the windpipe or air-passages after the blood has been impregnated with this worm-destroying medicine.

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For Horses, Cattle, and Sheep. Prices, £1 8s. 9d. and £2 16s. 6d.

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For all ailments in Horses. Prices, £1 10s. and £2 17s. 6d.

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We are now making our CAPSULED HORSE BALLS according to the above improved shape, the advantage of which is that they are swallowed with the greatest ease, and as both ends are conical in shape they can be introduced either way.

The Capsule is black, and each Ball bears the number corresponding to the formula. The name of the buyer can be put on without extra charge (for orders of one gross assorted), and in smaller quantities are supplied **either with or without our name.**

The Capsule preserves the mass unimpaired for a very long time, and by retaining the moisture prevents the ball from becoming hard and partially insoluble.

The Balls are put up in boxes containing half-a-dozen.

For complete list of formulæ, see Monthly Price Current, which will be forwarded upon application.

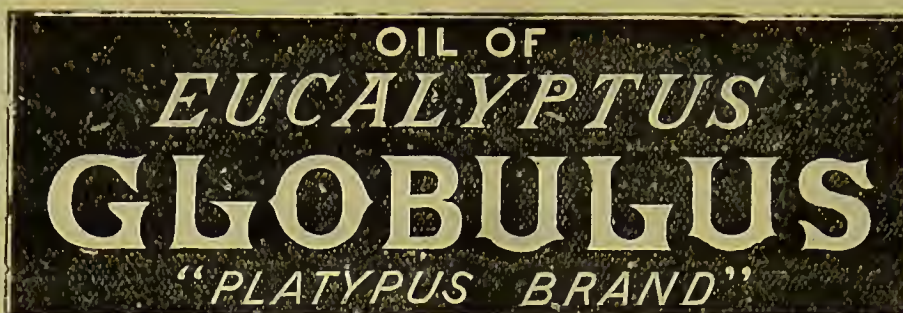
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Private Formulæ prepared in a few days.

T. HOWARD LLOYD & CO.

Wholesale Druggists and Manufacturing Chemists,

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HELBING'S ANALYSIS.—Specific Gravity, 0.9175 at 15° C. Contains 44.9 per cent. Crystallisable Eucalyptol
Free from Phellandrene, and from irritating constituents.

IN TASTE, AROMA, & THERAPEUTIC VALUE THE FINEST OIL KNOWN.

30-lb. TINS. CASES OF 4 TINS. (Contracts at Special Prices.)

TO BE OBTAINED OF ALL WHOLESALE DRUGGISTS.

APPLY FOR SAMPLES TO THE

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25-LB. TINS. 2 TINS IN CASE.

THE CHEMIST AND DRUGGIST says:—

“The oil is free from low-boiling terpenes, has a specific gravity of 0.9075, and has a delightful odour.”



KANGAROO EUCALYPTUS OIL

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public
To be obtained of your Wholesale Druggist.



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 Telegraphic Address—"SANITAS LONDON."
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THE SANITAS COMPANY, LIMITED

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The Chemists and Druggists
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**Sole Manufacturers of "SANITAS" Disinfecting, Toilet and Veterinary Preparations, &c.
 By Royal Letters Patent.**

Three Highest Awards, Chicago, 1893.

Gold Medals, Ostend, 1888, Antwerp, 1886, and Exposition du Travail, Paris, 1885.

First-Class Certificate and Gold Medal, Calcutta International Exhibition, 1883-1884. Medal, Sanitary Institute of Great Britain, 1882.

Silver Prize Medal (Highest Award), National Health Society's Exhibition, 1883.

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Supplied by Contract to H.M. Admiralty and the Crown Agents for the Colonies.

Used by most Public Health Bodies and Hospitals in Great Britain.

"Sanitas" Disinfecting Fluid (and Sea-
 Water Fluid)

"Sanitas" Disinfecting Oil and Soluble Oil.

"Sanitas" Disinfecting Emulsion.

"Sanitas" Crude Disinfecting Fluid.

"Sanitas" Insecticide and Liquid Soap
 (Sheep Dip)

"Sanitas" Toilet Fluid.

"Sanitas" Disinfecting Powders.

"Sanitas" Tooth Powder.

"Sanitas" Toilet Powder.

"Sanitas" Disinfecting Bar Soaps,
 No. 1 and No. 2

"Sanitas" Disinfecting Soft Soaps,
 No. 1 and No. 2

"Sanitas" Toilet Soap.

"Sanitas" Family Soap.

"Sanitas" Brown Windsor Soap.

"Sanitas" Animal (Soft) Soap.

"Sanitas" Dog Soap.

"Sanitas" Soap Powder.

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"Sanitas" Antiseptic Gauze and Wool.

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"Kingzett's Mercuric Bactericide."

Patent Preserved Peroxide of Hydrogen.

Kingzett's Patent Sulphur Candles.

"I consider the 'SANITAS' preparations to be excellent, and I use them in my own house."—(Sir) CHARLES A. CAMERON, M.D., F.R.C.S.I., Vice-President College of Surgeons, Ireland; Medical Officer of Health for Dublin.

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Now is the time to look over your stock and to see that you have a full line of our famous "Sanitas" Disinfecting preparations and appliances, but to make quite sure of your position you should look through our new Pamphlet before ordering.

Permit us at same time to remind you that we can do good business with you not only in "Sanitas" Disinfectants, but also in Eucalyptus Oil,

in Peroxide of Hydrogen,
 and in Kingzett's Sulphur Fumi-
 gating Candles.

Yours faithfully,

For the Sanitas Co., Limited,

C. T. KINGZETT,

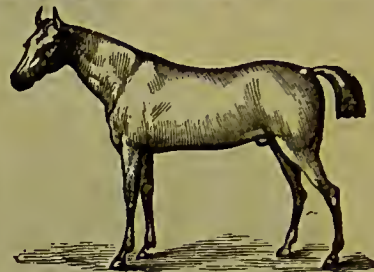
Managing Director.

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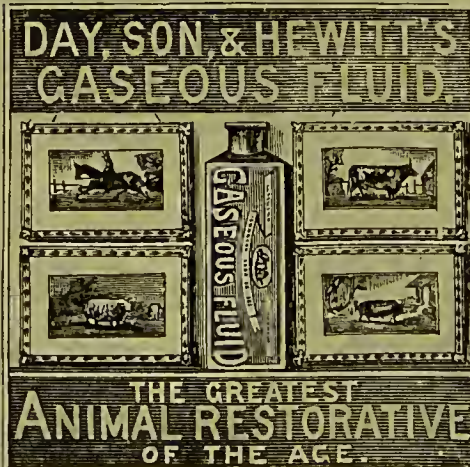
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HORSE BALLS



We are now making our CAPSULED HORSE BALLS according to the above improved shape, the advantage of which is that they are swallowed with the greatest ease, and as both ends are conical in shape they can be introduced either way.

The Capsule is black, and each Ball bears the number corresponding to the formula. The name of the buyer can be put on without extra charge (for orders of one gross assorted), and in smaller quantities are supplied **either with or without our name.**

The Capsule preserves the mass unimpaired for a very long time, and by retaining the moisture prevents the ball from becoming hard and partially insoluble.

The Balls are put up in boxes containing half-a-dozen.

For complete list of formulæ, see Monthly Price Current, which will be forwarded upon application.

A TRIAL ORDER WILL BE ESTEEMED.

Private Formulæ prepared in a few days.

T. HOWARD LLOYD & CO.

Wholesale Druggists and Manufacturing Chemists,

86 HIGH STREET, LEICESTER.

DUSSEK BROS. & CO.'S

SOLUBLE SANITARY FLUID (MILKY), CARBOLIC ACIDS & POWDERS

Of all strengths, in various packages for the Trade and for Export.

Also Sheep Dip, Tar and Rosin Products, Dubbin, Greases, Creosote, Brunswick Black, &c.

DUSSEK'S WHARF, VERNEY ROAD, S.E.

TELEPHONE No. 4833.

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CAMPHORTAR

8/- per Gross

CAMPHORTAR



A combination of Camphor, Eucalyptus, and Coal Tar. A Powerful Disinfectant, Deodorizer, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY ALL LONDON SUNDRY HOUSES.

HEBDEN'S CHLORID OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

MANUFACTURED ONLY BY

W. G. HEBDEN, ALBANY WORKS, YORKSHIRE.

"IZAL" IS THE
NEW NON-POISONOUS DISINFECTANT,

IZAL

And is now
supplied by the chief
Wholesale Houses.

Show Cards,
Pamphlets,
Printed Matter,
And any information
the Trade may require,
can be obtained on
application to

Allen & Hanburys,
BETHNAL GREEN,
LONDON,
Who are the Sole Bottling
Agents for the Manufacturers.

HANSON'S PERFECTION DENTIFRICE, MOUTH WASH AND GARGLE

(REGISTERED).

FOR THE TEETH, MOUTH, AND THROAT,
Prepared in two sizes, 1s. 6d. and 2s. 6d. per bottle.

ANTISEPTIC	In Patent Perforated Tins, 6d. each.
TOOTH POWDER	" " Glass Bottles, 1s. "
AND PASTE.	" Pots ... 1s. 6d. "

Handsome Show Card, Price List and Terms on receipt of Business Card.

SOLE PROPRIETOR—
OSWALD HANSON, 1 Ward's End, Halifax, Yorkshire

REVIVAL IN TRADE

FEBRUARY, 1894, A RECORD MONTH!

BEST & SAFEST DENTIFRICE

SOLD BY ALL CHEMISTS
AND PERFUMERS, IN
ELEGANT CRYSTAL
TOILET CASKET

PRICE 2/6.

ALSO IN PATENT
METALLIC BOX

PRICE 1/-



SAMPLE POST FREE 1/-

OSCAR SUTTON & CO., PRESTON, LANCs.

For
Export
Prices and
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EDINBURGH, 1891.

BOTH
HIGHEST
AWARDS.



JAMAICA, 1891.

DISINFECTANTS.

"Pneotas" Powders, Fluids, and Soaps; Carbolic
Powders, Fluids, and Soaps; Crude Carbolic Acid;
95.97% Pale Carbolic Acid 97.99%; Water-white Acid;
Sheep Dips and Petroleum Jelly.

PRICE LISTS FREE. HOME AND EXPORT.

WANDSWORTH CHEMICAL WORKS, LD.
WANDSWORTH, S.W.

AGENCY—116 PRINCESS STREET, MANCHESTER.

THIS SHOWS WHAT IT COST.

On August 8th, 1893, in the Chancery Division, before Mr. Justice Chitty, the case of KEATING *v.* ADDIS came on. The notice of motion was shortly to restrain the defendant from selling any insect powder or other preparation other than that prepared by Thomas Keating under the name of KEATING'S INSECT POWDER. By consent an injunction was granted perpetually restraining the defendant from acting as aforesaid, with damages arranged at £10, and costs £36 1s. 4d.

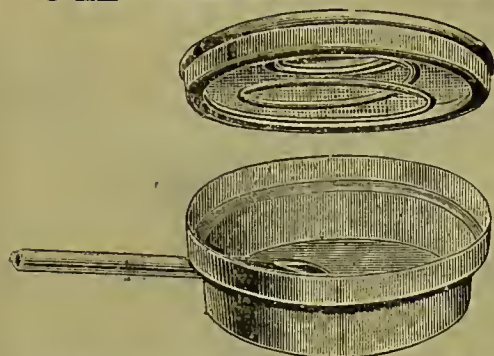
TO MY FRIENDS IN THE TRADE—

I am obliged to take proceedings as above—although it is with great regret I do so. The offender perhaps makes a few shillings extra profit—which is not at all certain, as the bulk of customers resent substitution—and if even he submits at once, the cost is as above and his own lawyer to pay. If you know of any person acting in this way, whether with my goods or anyone else's, I would much rather he was warned and stopped it than
the matter brought to my notice, when I must prosecute, as I
am determined to stop this fraudulent substitution so far as my Powder is concerned.

Yours most respectfully,

THOMAS KEATING.

JACKSON'S INSECT POWDER BELLOWS



For distributing "Insect Powder" equally and efficiently into the corners and crevices of rooms and other places not accessible to powder sprinkled in the ordinary manner.

The Lid takes off the same as an ordinary box, making them very handy for filling, and their general appearance makes them the most saleable on the market.

Sixpenny Size, 2/6 a doz.; Shilling Size, 3/6 a doz.

May be had through the London Wholesale Houses, or in quantities from the Manufacturer—

THOMAS JACKSON, 54 Northampton Street, BIRMINGHAM,
Maker of Metal Boxes, Screw Caps, and Fancy Metal Articles.

The Bellows, filled with the finest Dalmatian Insect Powder, may be had from THOMAS JACKSON, Strangeways, Manchester, at 4/6 and 8/- a doz., less the usual terms.

WHOLESALE & EXPORT orders for

MASON'S

PERFUMED SOLUTION OF

CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 2 Beech St., LONDON, E.C.

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FOUND DEAD!

KILLED BY SANFORD'S RAT POISON,

Which is said by Farmers to be the best and most effective ever introduced. Mr. Bliss, Farmer, Helethorpe, Leighton, writes, "That from one dressing he found 136 dead Rats next morning." Ald. Ashton, of Huntington, says he killed 70 Rats with a 1s. box of SANFORD'S RAT POISON. J. Long, Esq., of Carlton, states that he found over 300 Rats killed by using a 10s. tin of Poison. Price 6d., 1s., 2s., 3s., and 5s. per tin. To be had of all Chemists, or **SANFORD & SON SANDY, BEDS.** Wholesale of Maw, Son & Thompson, Newbery & Son, Edwards & Son, and others, London.

More than 100 per cent. Profit. Sell at Sight.

GARDEN SEEDS

Penny Pictorial Packets of Flower and Vegetable Seeds. Grocers and Shopkeepers can more than double their money by selling our reliable and genuine Seeds. 5/6 per gross. 6 gross carriage paid, 12 gross carriage paid and 5 per cent. discount. Cash with order.

SURREY PACKING COMPANY, 57 New Kent Road, S.E.

STEINER'S VERMIN PASTE

FOR DESTROYING

RATS, COCKROACHES, ETC.

IN [TRY IT]

8d., 6d., & 1/ Glass Jars; 2/6 & 5/ Tins.

Warranted to Keep for Export.



STEINER'S VERMIN KILLER

FOR [NEVER FAILS]

DESTROYING MICE, ETC.

1d., 8d., 6d., and 1s. Packets.



STEINER'S INSECT POWDER

PRIME DALMATIAN.

ENGLISH CROUND.

The most energetic Insecticide. Kills Bugs, Fleas, and all offensive Insects. Quite harmless to Domestic Animals.

1d., 8d., 6d., & 1s. Tins (& Bellows).

Also in 7-lb. and 56-lb. Tins, and in Kegs of 1 cwt. and upwards.



E. Steiner & Co. are Sole Proprietors & Manufacturers of

JAMES'S PHOSPHOR PASTE

FOR DESTROYING

BEEETLES, RATS, MICE, ETC.

Sold in 1d., 3d., 6d., and 1s. Glass Jars.

May be obtained through all the Wholesale Houses, or direct from

THE WORKS, LIMEHOUSE, LONDON, ENGLAND.



Eucalyptus Globulus

The undersigned call the attention of Medical Men and Pharmacists to the superior nature of their

Pure Oil of Eucalyptus Globulus,

distilled by them from leaves of the Blue Gum tree cultivated in California. It should be noted that the reputation of Eucalyptus Oil is solely based on the virtues of the Globulus variety, and procuring the oil as a by-product in the manufacture of our Eucalyptus Boiler Fluid we are enabled to place it on the market at a price to meet buyers. The oil is of great purity and unmixed with kindred bodies, therefore please specify "DOWNIE'S" in ordering through any wholesale house, as there are many worthless articles in the market.

DOWNIE B. I. P. CO

4 REDCROSS STREET, LIVERPOOL; and

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PATENT

Agents Wanted.

PATENT

SMITH'S "PERFECT" POWDER WEED KILLER.

A SCIENTIFIC TRIUMPH! NOTHING LIKE IT EVER SEEN BEFORE!



Immediately Soluble in Cold Water. One Small Tin makes 25 Gallons for use. Leakage Impossible! Each Tin a Measure! ALL TINS FREE. No Return Empties. Sold in Handsome Enamelled Tins. Retail Prices—1 tin, 1/9 per tin; 4 tins, 1/6 per tin; 8 tins, 1/5 per tin; 12 to 20 tins, 1/4 per tin.

All our Manufactures bear these Registered Trade Marks.

THE WEED KILLER OF THE FUTURE.

Only One-Eighth the Bulk and One-Fifth the Weight of the Liquid Preparations.

Agents will at once appreciate the above enormous advantages. The bulky and heavy nature of the Liquid Weed Killers, the space required for storage the possibility of leakage, and, above all, the TROUBLE, EXPENSE, and LOSS connected with Returned Empties, have hitherto prevented some agent from Stocking or Selling Weed Killer at all. This Powder Weed Killer overcomes all these objections. No other preparation has a chance against it. Agents should stock at once. Sample Tin sent to any agent, carriage paid, on receipt of 1/6. Liberal trade terms on application.

Sole Proprietors—MARK SMITH, LIMITED, LOUTH, Lincs.
(Mark Smith, Louth, and the Horticultural and Agricultural Chemical Co., Glasgow, amalgamated.)

TO THE WEED KILLER TRADE.

For Destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, Meadows, &c.

We desire to point out the special advantages which the sale of our "Acme" Weed Killer affords the Trade.

1. The "Acme" Weed Killer is used in the gardens and on the estates of the Gentry everywhere, and by Corporations and Burial Boards in Parks, Cemeteries, &c.
2. Our Retail Prices are such as will induce a ready sale, and we make no charge for 1 and 2 gallon tins.
3. We pay carriage on twelve 1-gall. tins, or on three 2 and six 1 gall. tins, and on 10 galls. in drums and upwards, to any Station or Port in Great Britain.
4. Drums and casks are charged at cost price. Full price allowed when returned.

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RETAIL PRICES.—In 1 and 2 gallon tins, 2/- per gallon (tins included); in 5-gallon drums, 1/6 per gallon; 10, 15, and 20 gallons, 1/4 per gallon; in 40-gallon casks, 1/3 per gallon.

TESTIMONIALS received from Mr. HEAD, Crystal Palace; Mr. IRWIN LYNCH, Cambridge Botanic Gardens; and others. THE "ACME" WEED KILLER, FOR CHEAPNESS AND EFFICIENCY, HAS WON FOR ITSELF A NAME FAR ABOVE ALL OTHERS.

SOLE PROPRIETORS AND MANUFACTURERS—

THE ACME CHEMICAL CO., LIM., Tonbridge, Kent; & Carlton St., Bolton, Lancashire.

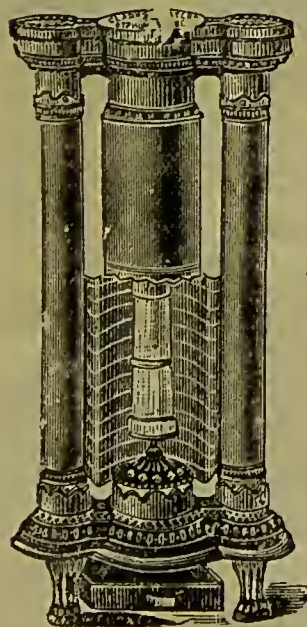
TO CHEMISTS AND DRUGGISTS.

AGENTS WANTED FOR THE SALE OF

"THE SYPHON" (REGISTERED TITLE) HYGIENIC CONDENSING GAS HEATING-STOVES (CLARK'S PATENT).

A Necessary for all Invalids. A Comfort to Everybody.

NO FLUE REQUIRED. FREE FROM SMELL OR SMOKE.



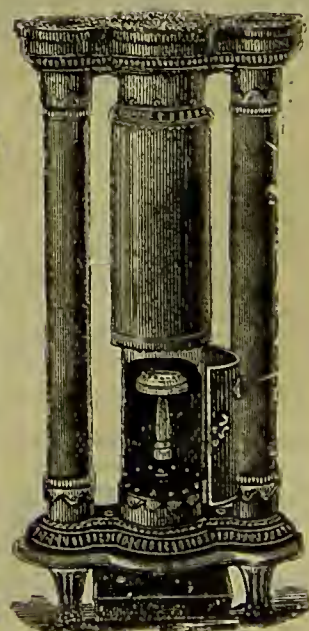
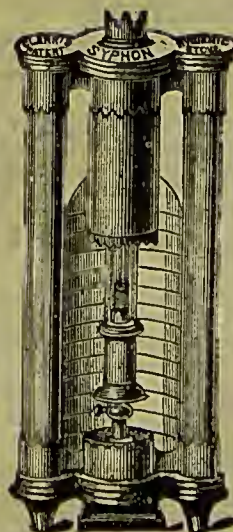
All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.



They give a Pure, Equable, and Agreeable Heat, which can be graduated and sustained at the will of the user.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.



For Terms, Particulars, and Prices, apply to

S. CLARK & CO., Patentees and Makers, Syphon Works, Park Street, ISLINGTON, LONDON, N.

Telegraphic Address—"SYPHON STOVES LONDON." Wholesale Agents—Messrs. MAW, SON & THOMPSON, Aldersgate Street, London, E.C.

CINCHONA BARK & CRUDE DRUGS.
SPECIALITIES OF
FREDK. GRAF,
DRUG MERCHANT,
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PRICES AND SAMPLES ON APPLICATION.

THE **"MORSTADT" Cachets**
Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 184 grains Quinine or Salicylic Acid.
"MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.
SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 6/6.
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NESS & COMPANY, DARLINGTON,
SPECIALISTS IN
SHEEP DIPS (Fluid, Paste, Powder) and **DISINFECTANTS.**
Three Gold Medals & Highest Award World's Fair, Chicago.
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HEATH BROS.,
27 BLACKFRIARS STREET MANCHESTER,
Being cash buyers can offer all lines at the very lowest prices.
WRITE FOR QUOTATIONS.

CRETA BRAND **PRÆCIP.**
Much Lighter and Finer than any other in the Market.
Prices and Samples on application to SOLE AGENTS—
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WEST AUSTRALIAN DISTILLERY COMPY.'S
OLEUM SANTALI OPT.
IS THE CHEAPEST PURE OIL ON THE MARKET.
Wholesale only.
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ORANGE WINE
(VIN. AURANT., P.B.).
Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate. In casks, 13 gallons to 140 gallons; small casks, 3s. 9d. per gallon, carriage allowed if paid within three months. In wine-bottles (not less than 3 doz.), at 9s. per doz. bottles included. Casks and cases extra, and returnable.
Sample on application. Special quotations to large buyers.
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PRECIPITATED CHALK, WHITEST & PUREST.
CHEAPEST SELLERS IN THE MARKET.
ALSO CHEMICALS, DRUGS AND OILS.
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SOLE PROPRIETOR AND MANUFACTURER.
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Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name. A sample box of 3d. sticks sent post free for 12 stamps. Price list and sample free.


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IMPROVED
MIXING & SIFTING MACHINES.
The Best for Counter or Laboratory.
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Full particulars on application.
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NEW CROP ESS. OF LEMON.
Absolutely pure. Nothing finer imported.
Prices 4/6 lb. c.l.f. Hull, London, or Liverpool.
Special quotations for contracts up to December, 1894. Large Stocks kept.
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DIRECT AGENT FOR LARGEST CONTINENTAL HOUSES.

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MOUSQUETAIRE
A bright Fixing Liquid for the special treatment of the MOUSTACHE. Invaluable to Medical Men, repelling infectious miasma from the respiration. In Cases, with Brush, Pom.-Hongroise, &c., at 2/-, 3/6, 5/-, 7/6, &c.
Most successful Novelty, 2/- sample post free 15 stamps.
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Manufacturers of
ABSORBENT AND ANTISEPTIC COTTONS AND GAUZES.
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 Supplied in Original Bottles ready for Patient's use (stamped), to retail at 4/6 each; also in 1-lb. Bottles for Dispensing, by the Sole Manufacturers:—
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Concentrated
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OLD REFINERY
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SHEEP-DIPPING APPARATUS

OF ALL KINDS MANUFACTURED BY

GEO. STEPHENSON & SONS, Newark.

SEND FOR ILLUSTRATED LISTS.

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Areca Nut Tooth Paste, 6d. ...	3/0 doz.
Cherry Tooth Paste, 6d. ...	3 0 „
Breast Relievers ...	5 6 „
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ALL OF THE BEST QUALITY AND STYLE.

Full Price List on application.

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For Cuts, Scratches, Scalds, & other Medical purposes.
Any size cut for Chemists. Wholesale and Export.

GOLD & SILVER LEAF & BRONZE POWDER

DIRECT FROM MANUFACTURERS.

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BOURNE SODA, SELTZER,
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Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth ($1/8$) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth ($1/64$) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

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The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended
To be had of all Druggists' Sundriesmen. Wholesale only of the Company.



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up to date. For lightness, cheapness and usefulness they are simply perfect. Celluloid in imitation of watered silk, Aluminium Head Clips and Covered Silk Bands, &c.

Every up-to-date Chemist should keep them on his counter. They are outside the range of imitation and competition. Side by side with any other Shade for protecting the eyes comparison would be odious. Of all Chemists and Opticians and of the maker

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They will win the gratitude of customers and profit for yourselves. Worked by powerful screw action. Three Brass Corn and Bunion Pieces, which can be adapted to Relieve Pressure of Boot on any part of the Foot.

WILL STRETCH OR BLOCK ANY SIZE.



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THE FAMILY BOOT STRETCHER.

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TO BE HAD OF THE MAKERS—

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TERMS ON APPLICATION. [1]

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NO CHARGE FOR SHOW CASES. CONTENTS TO VALUE.



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£5 "HAHNEMANN" CASE.
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 No charge for Case.
 SAME CASE, WITH DESK, £5 15s.

IMPORTANT TO SHIPPERS

Send for
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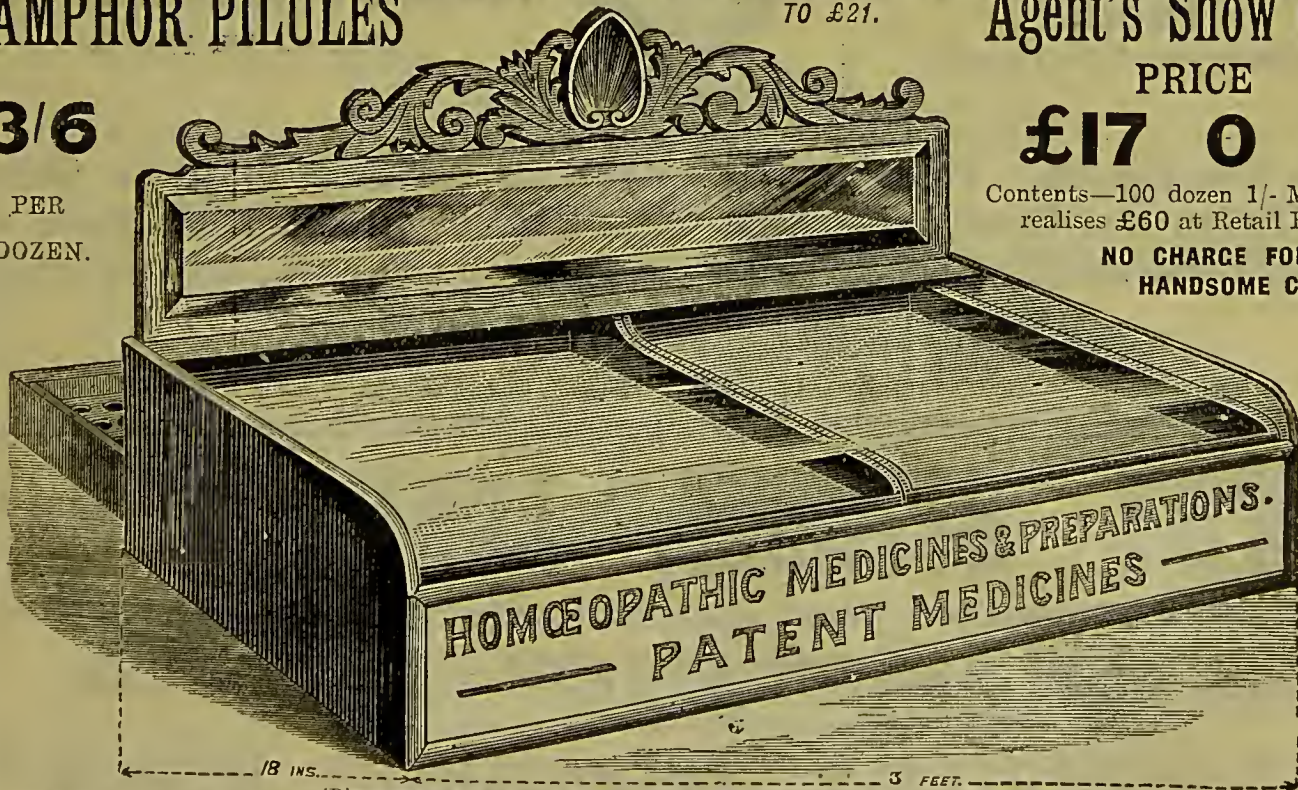
ALL 1/- 3/6
MEDICINES PER DOZEN.

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A SERIES OF THESE CASES FROM £3 3s.
 TO £21.

3/6

PER
DOZEN.



Agent's Show Case.

PRICE

£17 0 0

Contents—100 dozen 1/- Medicines,
 realises £60 at Retail Prices.

**NO CHARGE FOR THIS
HANDSOME CASE.**

(Dimensions—3 feet long, 18 inches wide, 18 inches to top of Mirror.)

This Show Case has been designed to assist in furnishing a Chemist's Counter, either when commencing business or when refitting the Pharmacy. It is a handsome Case, made of Mahogany and Bent Plate Glass, with a carved back and bevelled Mirror. The velvet-lined top is left empty for Fancy Articles, Patent Medicines, &c.

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MANUFACTURING CHEMISTS.

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SOLID AND LIQUID EXTRACTS, B.P. & U.S.P.,
And all Pharmaceutical Preparations.

OL. LAVAND. "Special."

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1893.

(Imported direct from Slelly.)



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Finest Non-Freezing Norwegian Cod-liver Oil (1893). Tasteless Castor Oil. English and Foreign Essential Oils. Extract of Malt and Extract of Malt and Cod-liver Oil. In 8-oz. and 16-oz. Amber Bottles with Artistic Labels.

EUCALYPTUS OIL. "VIRGINIAN" SALAD OIL.

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SOUTHWARK
S.E.

Stevenson & Howell, 95^A Southwark St LONDON S.E.

UN-ENGLISH ADVERTISING.

“High-minded traders will praise their own articles, but will not run down their competitors’ wares.”—

3rd March, 1894.

TO CHEMISTS AND DRUGGISTS, AND ALL DEALERS IN TOILET SOAPS.

GENTLEMEN,—Our attention has been drawn to a series of very extraordinary and un-English advertisements, published by a Firm of French Perfumers, making violent attacks upon the goods of competitors. As these are not specified, the intention no doubt is to create distrust of every Soap that competes with theirs. We beg therefore to draw your attention to the fact that we have received many Special Awards for the **PURITY** of our **TOILET SOAPS**, and especially that **COOK’S “RIVIERA”** super-fatted **SOAP** is made of edible fats, and a guarantee that it is **ABSOLUTELY PURE** is stamped on each Tablet. We have not coined the word **SUPER-FATTED** as a name, but we use it to express the simple fact that **COOK’S “RIVIERA” SOAP** not only does not contain any free Soda or Potash, but contains more fat than the chemical equivalent requires. You may recommend it to ladies and for the use of children with perfect safety. Ladies say, “It is the very nicest Soap”—and when customers once try it, they always ask for it again. Your further orders will be esteemed.

Yours faithfully,

See also page 58 (bottom folio).

EDWARD COOK & CO.

EDWARD COOK & CO., LONDON.

ESTABLISHED OVER 100 YEARS.

Fletcher, Fletcher & Stevenson.

MARK

THIS

PAGE.

IF YOU ARE
SHIPPERS OF
OUR LEADING
MANUFACTURES,
SUCH AS:—

Concentrated Liquors.—For the

preparation of Tinctures, Infusions, Syrups, &c., FLETCHERS' LIQUORS are known throughout the World as the ORIGINAL and the BEST.

Extracts and Fluid Extracts.—

We have so perfected our plant and processes for the manufacture of every description of vegetable EXTRACTS that our products are of the highest class, and will withstand the hottest climates under conditions which are absolutely fatal to Extracts of inferior quality.

Tinctures and Spirits in Bond.

—Our experience in the manufacture and shipment of these goods is unrivalled, and we can quote the very best terms for products of guaranteed strength.

Perfumes and Flavouring

ESSENCES. — We can now ship these under Bond, FREE OF SPIRIT DUTY, which must necessarily result in an increased impetus to the foreign demand.

Medicinal Syrups.—Only the

purest CANE SUGAR enters our Factory. We can therefore guarantee that our Medicinal and other Syrups will not ferment, become cloudy in appearance, or develop the objectionable odour so frequently met with in Syrups made from Beet Sugar.

Pepsine and its Preparations.

—The unequalled quality of our brand is too well known to require detailed comment. FLETCHERS' LIQUOR PEPSINÆ, for the ready production of the Wine and other fluid preparations of Pepsine, is finding a steadily increasing market.

We can
quote to exceptional
advantage

CITRATE OF IRON AND QUININE
AMMONIA, ANHYDROUS AND LIQUID
ETHER, FOR ICE FACTORIES
SULPHURIC ACID, CONCENTRATED

CARBOLIC ACID
EUCALYPTUS OIL
COD LIVER OIL
GLYCERINE, S.G. 1.260

Offices, 21 Mincing Lane, E.C. Works, Holloway, London, N.

CAUTION.**TO CHEMISTS AND DRUGGISTS, AND OTHERS.**

Many of our customers, especially those abroad, having complained that when ARTICLES OF OUR MANUFACTURE have been ordered through Merchants and Wholesale Houses, other and inferior goods have been substituted, we beg to inform the Trade that to insure the supply of OUR MANUFACTURES in future all our BEST QUALITY GOODS will bear Trade Mark as annexed.

S. MAW, SON & THOMPSON.

ALDERSGATE STREET, LONDON.

S. MAW, SON & THOMPSON'S

TRADE MARK.



TO IMITATE WHICH IS FELONY

The following SPECIALTIES are well worth the attention of the Trade:—

- | | |
|--|--|
| MAW'S ADHESIVE PLASTER | MAW'S CHEST PROTECTORS |
| MAW'S ANTISEPTIC INHALERS | MAW'S CLINICAL THERMOMETERS |
| MAW'S ARECA TOOTH PASTE | MAW'S COCAINE SPRAYS |
| MAW'S AROMATIC TOOTH PASTE | MAW'S COMPRESSED CAMPHOR |
| MAW'S AROMATIC TOOTH SOAP | MAW'S CORK PRESSERS |
| MAW'S ATMOSPHERIC ODORATORS | MAW'S CORN AND BUNION PLASTERS
(White Felt) |
| MAW'S AURILAVES | MAW'S CORN RUBBERS |
| MAW'S BACK RESTS AND BED TABLES | MAW'S COSMETIQUE |
| MAW'S BATH THERMOMETERS | MAW'S COTTON WOOL |
| MAW'S BOUGIES & CATHETERS, Elastic Gum
and Silk Web | MAW'S COURT PLASTER |
| MAW'S BREAST RELIEVERS | MAW'S COVERED POTS FOR DISPENSING |
| MAW'S BRILLIANTINE | MAW'S DISPENSING BOTTLES |
| MAW'S BRONCHITIS KETTLES | MAW'S DRYING BOTTLES for Cigars and
Gloves |
| MAW'S BRUSH AND SPONGE POWDER | MAW'S EARTHENWARE INHALERS |
| MAW'S CACHOUS AROMATISES | MAW'S ELASTIC STOCKINGS, &c. |
| MAW'S CAMPHORATED TOOTH PASTE | MAW'S ELECTRO-MAGNETIC MACHINES |
| MAW'S CAPILAVES | MAW'S ENEMA APPARATUS |
| MAW'S CAPSULES | MAW'S ENEMA APPARATUS (HIGGINSON'S) |
| MAW'S CATHETERS, Silk Web, Unbreakable Eyes | MAW'S FEEDING BOTTLES |
| MAW'S CATHETERS, Silk Web, Unbreakable
Eyes, and Solid Ends, Patent | MAW'S FLESH GLOVES, RUBBERS, &c. |
| MAW'S CHERRY TOOTH PASTE | MAW'S FLOATS AND WICKS |

S. MAW, SON & THOMPSON'S SPECIALTIES—continued.

MAW'S FULLERS' EARTH	MAW'S PILL BOXES
MAW'S FUMIGATING PASTILLES	MAW'S PILL MACHINES
MAW'S FUMIGATING RIBBON	MAW'S POMADE BOTTLES
MAW'S GERMAN FLOATS	MAW'S POWDER FOLDERS
MAW'S GLYCERINE JELLY	MAW'S RESPIRATORS
MAW'S GOLD BEATERS' SKIN	MAW'S RETORT STANDS
MAW'S GRADUATED MEASURES	MAW'S ROOT CUTTERS
MAW'S HAIR BRUSHES	MAW'S ROSE LEAF POWDER
MAW'S IMPROVED BINAURAL STETHO- SCOPES	MAW'S SCALES AND WEIGHTS
MAW'S IMPROVED DOUCHES	MAW'S SEALING WAX
MAW'S IMPROVED HEARING TRUMPETS, Nickel Plated	MAW'S SMELLING BOTTLES
MAW'S IMPROVED INDIARUBBER URINALS	MAW'S SODA WATER TAPS
MAW'S IMPROVED SUBCUTANEOUS SYRINGES, with Huggett's Permanent Solutions	MAW'S SPIRIT LAMPS
MAW'S IMPROVED VAGINA SPECULUMS, Covered with Web and Elastic Gum	MAW'S SPONGE BAGS AND BATHING CAPS
MAW'S INDIARUBBER TEATS	MAW'S SPRAY PRODUCERS
MAW'S INHALERS	MAW'S STEAM AND HAND BALL SPRAYS for Antiseptic Purposes
MAW'S LABEL DAMPERS	MAW'S SUPPOSITORY MOULDS
MAW'S LIME JUICE AND GLYCERINE	MAW'S SURGICAL APPLIANCES
MAW'S LINT, Absorbent	MAW'S SURGICAL INSTRUMENTS
MAW'S MARKING INK	MAW'S SYRINGES
MAW'S MEDICINE CHESTS	MAW'S TEETHING PADS
MAW'S MENTHOL CONES	MAW'S THERMOMETERS
MAW'S MORTARS AND PESTLES	MAW'S TOILET POWDER
MAW'S MOUTH AND THROAT SPRAYS	MAW'S TOOTH BRUSHES
MAW'S NIPPLE SHIELDS	MAW'S TOOTH PICKS
MAW'S OILED SILK	MAW'S TRUSSES
MAW'S PALETTE AND PILL KNIVES	MAW'S VIOLET POWDER
MAW'S PERFUMED TOILET SOAPS	MAW'S WAFER PAPER
MAW'S PERFUMERY	MAW'S WATCH SPRING PESSARIES
MAW'S PESSARY MOULDS	MAW'S WAXED PAPER
	MAW'S WHITE DEMY PAPER
	MAW'S WHITE ROSE TOOTH PASTE
	MAW'S WHITE CHERRY TOOTH PASTE
	MAW'S WHITE FELT CORN AND BUNION PLASTERS

TAYLOR'S SUPER A1 LINT.

SPECIAL TERMS TO SHIPPERS.**SAMPLES AND QUOTATIONS ON APPLICATION**

For further particulars see Quarterly Price Current and Book of Illustrations, which will be forwarded on application, enclosing Business Card, post free to any part of the world.

CORRESPONDENCE INVITED.

S. MAW, SON & THOMPSON,

MANUFACTURERS OF

Surgical Instruments and Druggists' Sundries,
7 to 12 Aldersgate Street, LONDON, ENGLAND.

Our Medicated Lozenges are all Cut by Hand.



..... LOZENGE MAKING.....

Notice Special

GELATINE JUJUBES and PASTILLES

have usually a very highly-finished surface, but may be distinguished from our Genuine Gum Goods by the fact that the former will remain for days in a glass of cold water undissolved.

INFERIOR JUJUBES. INSOLUBLE.



OUR PURE GUM JUJUBES. SOLUBLE.



All our Jujubes and Pastilles are prepared with PURE GUM only, are quite free from Gelatine, and dissolve in cold water.

RETAILERS should beware of Gelatine goods, which are only worth about 36/- per cwt.

LORIMER & CO.,

WHOLESALE DRUGGISTS,
IMPORTERS and EXPORTERS.

**Britannia Row, ISLINGTON,
LONDON, N.**

NEW ILLUSTRATED PRICE LIST NOW READY.

PLEASE WRITE FOR COPIES.

A CORNER OF OUR GRANULATING DEPARTMENT.



MAGNESIÆ CITRAS. GRAN. EFFG.

Extra Quality, Red Seal	lb. 10½d.	cwt. 80/-	5 cwt. 78/-	10 cwt. 76/-
"	bots. included, doz.	1/-	½ lb. 4/6	½ lb. 4/6
"	gross	3/8	4/6	6/9
Fine Quality, Blue Seal	lb. 9½d.	cwt. 71/-	5 cwt. 70/-	10 cwt. 68/-
"	bots. included, doz.	1/-	½ lb. 4/3	½ lb. 4/3
"	gross	3/7	4/3	6/4
Good Quality, Green Seal	lb. 8½d.	cwt. 62/-	5 cwt. 60/-	10 cwt. 58/-
"	bots. included, doz.	1/-	½ lb. 4/1	½ lb. 4/1
"	gross	3/3	4/-	6/-
"	"	"	40/-	69/-
"	"	"	111/-	111/-

We specially recommend "Red Seal" for export.

One of the many Unsolicited Testimonials we receive:

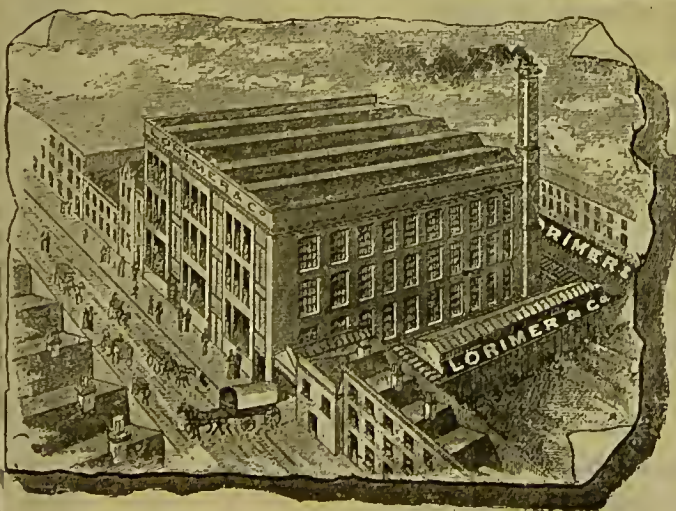
"90 Western Road, Brighton.

"Messrs. LORIMER & Co.

"GENTLEMEN,—We have pleasure in informing you that, having tried the Citrate of Magnesia of all the makes that have been offered to us, taking Bishop's as a standard, we find yours to be the only one comparing favourably with the same, and that it quite equals, if not surpasses it.

"Yours truly,

"HEADLAND & CO., Chemists."



LORIMER & Co.

WHOLESALE DRUGGISTS,
and

MANUFACTURING CHEMISTS,

IMPORTERS and EXPORTERS,

Britannia Row, ISLINGTON,
LONDON, N.

New Illustrated Price List Now Ready.

PLEASE WRITE FOR COPIES.



DRUGGISTS' SUNDRIES



We beg again to call the attention of the Trade and Shippers to the above department of our business, which has so rapidly increased as to necessitate constant enlargement of our premises. We guarantee quality of all our goods, and all articles of Best Quality bear our Trade Mark as above. The word "Savars" is also registered as a Trade Mark.

Our Price Lists are most complete, and are supplied (as also are our goods) **TO REGISTERED CHEMISTS AND DRUGGISTS ONLY.**

EVANS, SONS & CO.
LIVERPOOL.

EVANS, LESCHER & WEBB,
LONDON.

EVANS AND SONS (LIMITED),
MONTREAL (CANADA).

Offices at **BIRMINGHAM, MANCHESTER, PARIS, TORONTO,**
VICTORIA (B.O.), SYDNEY, &c., &c.

SAVARS Absorbent Cotton Wool
SAVARS Animal Soap
SAVARS Bay Rhum
SAVARS Bears' Grease
SAVARS Bed Pan, with Cover (Registered)
SAVARS Breast Exhausters
SAVARS Breast Pumps
SAVARS Breast Relievers
SAVARS Brilliantine
SAVARS Brunswick Black
SAVARS Bunion Plasters, Savars
SAVARS Cachou Lozenges
SAVARS Calves' Foot Jelly
SAVARS Camphor Caskets
SAVARS Carbolic Acid Soap
SAVARS Chest Protectors
SAVARS Coal Tar Soap
SAVARS Coca Wine
SAVARS Cold Cream
SAVARS Cologne Cream

SAVARS Combination Medicine Spoon (China)
Corn Plasters, Savars
SAVARS Cosmetiques
SAVARS Cotton Wool
Court Plasters, Savars
SAVARS Cream of Lilies
SAVARS Cubeb Cigarettes
SAVARS Ear Syringes
SAVARS „ Sponges
SAVARS Eau de Cologne
SAVARS Electro Magnetic Machines
SAVARS Emollient Camphor Roll
SAVARS Extract of Limes and Glycerine
SAVARS Family Enema, and other Enemas
Family Adhesive Plaster, Savars
Family Mustard Plaster, Savars
SAVARS Family Magnum Pomades
SAVARS Feeding Bottles
SAVARS Flesh Gloves



DRUGGISTS' SUNDBRIES



SAVARS Floral Bloom, in 1/- Bottles
 SAVARS Fluid Dentifrice
 SAVARS Fly Papers
 SAVARS Fossiline, Simple
 SAVARS „ Plaster, Adhesive, Savars
 Adheres without warming, and may be easily
 removed for the inspection of wounds, &c.

SAVARS Fossiline Pomade
 SAVARS Fuller's Earth, in Packets and Boxes
 SAVARS Furniture Polish
 SAVARS Glycerine Jelly
 SAVARS "Good Samaritan" Chest Protectors
 —Vest shape. These are manufactured from
 selected Lamb's Wool, specially purified
 without chemical aid; they are free from any
 obnoxious colouring matter, cochineal only
 being used, and they have an even surface.
 They are the cheapest Vest-shape Protectors
 sold.

SAVARS "Good Samaritan" Porous Plasters
 —Capsicum, Belladonna, Roborans, and
 Strengthening, spread on a new material
 equal to leather; the cheapest Porous
 Plaster made; quite as effectual as any and
 more comfortable in the wearing.

SAVARS Gutta Percha Tissue
 SAVARS House Thermometer
 SAVARS Improved Higginson Enema
 SAVARS Inexhaustible Smelling Salts
 SAVARS Jewellery Requisites
 SAVARS Juniper Tar Soap
 SAVARS Knife Polish
 SAVARS Lavender Water
 SAVARS Lint
 SAVARS Lip Salve
 SAVARS Marking Ink (Guaranteed)
 SAVARS "May Blossom" Requisites
 SAVARS Medicine Droppers
 SAVARS Metal Polishing Paste
 SAVARS Nail Trimmers
 SAVARS Nipple Shields
 SAVARS Oatmeal Soap
 SAVARS Odorators (Folding)
 SAVARS Obstetric Binders

SAVARS Ozone Water
 SAVARS Parcel Post Envelopes
 SAVARS Perfume Sachets
 SAVARS Perfumery
 SAVARS Poison Stoppers
 SAVARS Pomades—Cantharadine, Castor Oil, Crystal-
 lized, Floral, Fossiline, Marrow, May Blossom
 SAVARS Popular Inhaler
 SAVARS Poudre de Riz
 SAVARS Restorative Smelling Salts
 SAVARS Salicylic Corn Plasters (Savars)
 SAVARS Sealing Wax
 SAVARS Shaving Cream
 SAVARS Shaving Sticks
 SAVARS Soda Water Taps
 SAVARS Starch Glaze
 SAVARS Sulphur Water
 SAVARS Toilet Companion—comprising a variety
 of Savars Specialities arranged in a neat
 partitioned box, handsomely labelled, pecu-
 liarly adapted for a Birthday Gift.

SAVARS Toilet Requisites
 SAVARS Toilet Soaps
 SAVARS Tooth Pastes and Powders
 SAVARS Tooth Picks
 SAVARS Transparent Glycerine Soap
 SAVARS Transparent Wash Balls
 SAVARS Trusses
 SAVARS Vaccination Shields
 SAVARS Violet Powder (guaranteed pure Starch
 Powder)

SAVARS White Fossiline Cold Cream
 SAVARS White Fossiline Pomade
 SAVARESE'S Membraneous Capsules.
 Poor Man's Plasters, ordinary, Savars
 Poor Man's Plasters, Porous, Savars.

We call special attention to these Plasters.
 They are the same size as ordinary Poor Man's
 Plasters, but spread on a Patented Material
 equal to Leather, and Porous. They already
 command a large and ready sale.

Porous Marginal Plasters, Savars.
 Spread on Leather

SAVARS Pumice Stone
 SAVARS Respirators

*N.B.—For Prices, &c., see our Business Price List, which can be had on application
 accompanied with card.*

SPECIAL LISTS AND TERMS FOR EXPORT.

"CONCILIO ET LABORE."

**THE MANCHESTER COLLEGE
OF PHARMACY.**Directors { **Mr. W. SPENCER TURNER**
Mr. CHARLES TURNER, F.C.S.

The next course (XXX.) will begin on April 3. The fees from then to the "July" examinations are: Minor, £9 9s.; Major, £4 14s. 6d. Students who move into these classes from the Local classes pay reduced fees, as also do those who join for longer periods.

Students are warned against the imitations and paraphrases of the advertisements of the M.C.P. which are now appearing, and are requested to get the copyright prospectus of the M.C.P., and then to join any of the classes therein named, when they will find that the details given in the prospectus specify the minimum of instruction and attention received by each student; and that if they themselves follow diligently the instruction given, and make good use of the advantages offered, they will, when they have passed their examinations, not only be equal with men who have passed from any other school in England in the variety and depth of their scientific knowledge, but also be superior to most of them in their practical acquaintance with their subjects.

**THE METROPOLITAN COLLEGE
OF PHARMACY,**

162 KENNINGTON PARK ROAD, LONDON, S.E.

Principal—**W. WATSON WILL, F.C.S.**

Intending Students are requested to address the Secretary in regard to the course they should adopt.

Fees:—Major Course, 6 Guineas. Minor Course, 10 Guineas. Absolutely inclusive. No Extras at this College.

W. WATSON WILL is prepared to receive a limited number of Resident Students. Terms on application.

EVENING CLASSES.

For MINOR—MONDAY, WEDNESDAY, and FRIDAY.

For MAJOR—TUESDAY and WEDNESDAY.

For particulars as to Terms and Special Tuition for short periods, apply to the Secretary,
WALTER S. CARVER.

ORDER EARLY.**SOAP & PERFUMERY**

AND

ALLIED TRADES' DIRECTORY, 1894.

Containing the addresses of all the leading
SOAP, CANDLE, AND PERFUMERY MANUFACTURERS

IN

England, Scotland, Ireland, Canada, Australia, &c.,
sent post free to any address on receipt of P.O. for 5/-.

Address—**THE PUBLISHER,**

"**Soap and Perfumery Trades' Directory,**"
36 HARDY TERRACE, WOOD GREEN, N.

12

**NORTHERN SCHOOL
OF PHARMACY,
100 BURLINGTON STREET, MANCHESTER.**

PRINCIPAL: **MR. GEO. CLAYTON, Ph.C., F.C.S.,**
ASSISTED BY **MR. F. LAWSON, Ph.C.**

The course of instruction at this well-known School not only enables students to pass their examinations with ease, but is specially devised with the object of preparing gentlemen for their subsequent work in life. This is demonstrated by the uniform high percentage of passes, which is second to none in the country, and also by the fact that "Northern School" men are constantly taking high positions as Pharmacists all over the country.

The next Course will commence on April 4th.

Prospectus, with full particulars, will be posted on application to the Principal.

**THE CENTRAL SCHOOL
OF
CHEMISTRY & PHARMACY,**

173 Marylebone Road, London, N.W.

(Late LUFF & WOODLANDS.)

Lecturers { **Dr. A. B. GRIFFITHS, Ph.D., F.R.S.E., F.C.S., &c**
Mr. L. COOPER, F.C.S., F.R.B.S., &c.

This School is fitted up with every convenience for Pharmaceutical Students, and the utmost endeavours are made by means of individual attention to secure a successful issue.

Extra Lectures are given throughout the course, and for reference Students are requested to apply to any past Students.

Entries are now being received, and prospectuses will be forwarded on application to **THE SECRETARY.**

TO BE PUBLISHED IN MARCH.

Sixteenth Edition, much Enlarged. Price 12s. 6d.

**SQUIRE'S COMPANION
TO THE
BRITISH PHARMACOPŒIA.**

London: J. & A. CHURCHILL, 11 New Burlington Street, W.

NOW READY, SECOND EDITION, CROWN 8VO, PRICE 5s.

**A PRACTICAL MANUAL OF
VENEREAL & GENERATIVE DISEASES:**

Including SPERMATORRHOEA, PROSTATORRHOEA, IMPOTENCE,
and STERILITY in both Sexes.

By M. K. HARGREAVES, M.D.

Assistant Physician to St. John's Hospital for Diseases of the Skin.

LONDON: R. KIMPTON, 128 WARDOUR STREET, LONDON, W.O.

**LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL
SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.O.**

Contains 90 beds, and, being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital always open to the inspection of visitors, and Clinical Instruction is given in Wards and Out-patient Department to Medical Students and Practitioners. possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. T. In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their residences.
G. A. CROSS, Secretary-Superintendent.

READ AND USE**THE ART OF DISPENSING.** Price 3s. 6d.**ALPHE'S HANDY BOOK OF MEDICINE STAMP DUTY.** Price 2s. 6d.**PROCTOR'S MANUAL OF PHARMACEUTICAL TESTING.** Price 2s. 6d.**VETERINARY COUNTER PRACTICE.** Price 3s. 6d.

Published at the Office of **THE CHEMIST AND DRUGGIST,**
42 Cannon Street,

The "C. and D." of January 27 last, commenting on the results of the Diary Coupon Competition, reproduces our page as below, and states that in reply to the question as to which is "the most striking feature among the

NOTE IT
DOWN.

That we make a feature of all kinds of Catalogue and Advertising Novelties. We have a large collection of "fads," initial letters, and ornamentation that help . . .

. . . to beautify our work.

Our circular was read because it attracted attention. Herein lies the secret of successful advertising. Invite trade by circularising in an attractive manner, and you will make things brisk.

It is a great mistake to issue poorly-printed circulars.

For Trade Depression use regularly Bowers Brothers' Nuts.



People work and can't quite get on. They have a good thing to sell.

Advertising is to business as a man's well shod.

Without Advertising a man will always plod.

Newton Worried Considerably about that Apple. None of us would probably have worried at all if it had not been for the toothsome fruit in far-off times. Why Newton's Apple fell downwards, we know. So also when a business is said to "run itself without advertising," we know it will serve as another illustration of the law of gravitation—gravity is always downwards. Print and prosper is a wise old saw.

There is no necessity of arguing the question whether it pays to advertise. Whether it pays to push business. Whether it pays to send out well-written circulars. If you think it doesn't pay, take down your signs; pull down your blinds; keep very quiet and don't mention business. *Ex nihilo nihil fit.*

Your Circular is one of the Props of your Business. It is the most valuable of all your salesmen. It travels anywhere for a trifle, and presents your ideas and arguments just as you would talk them, and quotes prices. BOWERS BROTHERS are Circular Experts. Their methods tell. They solicit your orders. You can't do better. 89, Blackfriars Road, London, S.E.

Keep Everlastingly at it. Advertising is cumulative in its effects. Send out your hot weather announcements for Summer purchasers, but don't fail to be in time with your Fall and Winter lines for future customers. Write this down where you'll fall-over it every day: The time to draw business is when you want business, and not when you have more business than you can attend to already. Don't anchor your boat.

Among the Busy Denizens of the Hive, the Queen Bee is alone to be distinguished by her style. You know that Bowers Brothers get up Advertisements entirely different to other folk. They also do all kinds of Printing in the same superior style.

Use Regularly Bowers Brothers' Nuts. They are real good. Once tried always used. They have advantages entirely their own, and are made for valiant service. This is good advice, take it; and when

Standing on the Quarter-deck of your spanking Steam Yacht, as you pass the Printer in his row-boat, at 22 knot speed, you will generously avoid swamping him because his advice and work made the yacht a practicality.

BOWERS BROTHERS, 89, BLACKFRIARS ROAD, ARE ALWAYS READY TO SERVE YOU.

NOTE IT
DOWN.

Printing does not cost much. That being true, why not have it well done?

It is all summed up in one word—"Attractive." If it is not attractive the money you pay for it is wasted—you lose one hundred per cent.

We do printing that people look at twice. It does not go in the waste basket or on the floor unnoticed. They save it because it is attractive.

WHY NOT TRY
SOME OF OURS?

A circular on the desk is worth ten in the waste basket.

advertisements, say the voters, by an enormous majority of **412 VOTES**, is

"BOWERS BROTHERS'."

**BOWERS BROTHERS, Attractive Printers,
89 Blackfriars Road, London, S.E.**

**SILVERLOCK'S
POSTAL ORDER
RECORD BOOK.**
WITH PRINTED HEADINGS.
Size 8 x 5, bound in cloth.
Price 1/6, Post free.

SAMPLES
FREE BY POST.

SILVERLOCK'S
CHEMISTS' SLIP LABELS
From 1/ per 1000; a reduction on large quantities.

CHEMISTS' COUNTER BILLS
Good Quality, 7½ x 5 .. 10,000, 15/ | Second Quality, 7½ x 5 .. 10,000, 12/6
" 9 x 5½ .. 10,000, 22/6 | " 9 x 5½ .. 10,000, 18/

CHEMISTS' PILL LABELS
From 1/3 per 1000; a reduction on large quantities.

COPPER-PLATES FOR SLIP AND DISPENSING LABELS
ENGRAVED FREE OF CHARGE.

Labels of every description, Price Lists,
Illustrated Trade Catalogues, Prospectuses,
Pamphlets, Show Cards, &c.

H. SILVERLOCK,
Medical Label & General Printer,
92, BLACKFRIARS ROAD, LONDON, S.E.

**THE
CLINICAL CLERKS'
GUIDE TO URINE TESTING**
On 3-fold linen-lined card,
9 in. by 5 in.
Price 7d., Post free.

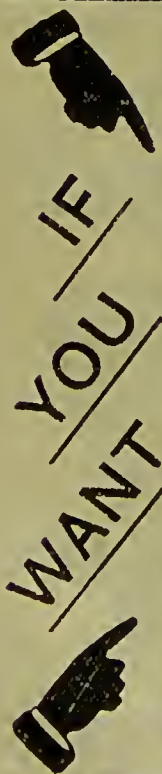
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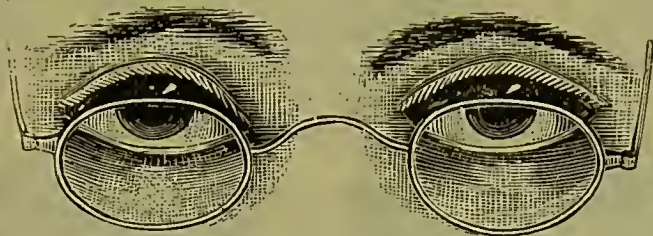
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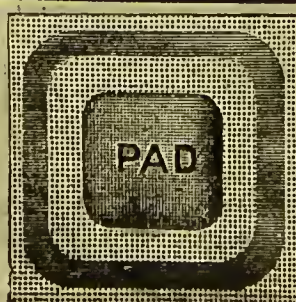
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Is guaranteed Pure and Neutral, and contains NO bad fats
NO silicate or sulphate of soda, NO poisonous mineral
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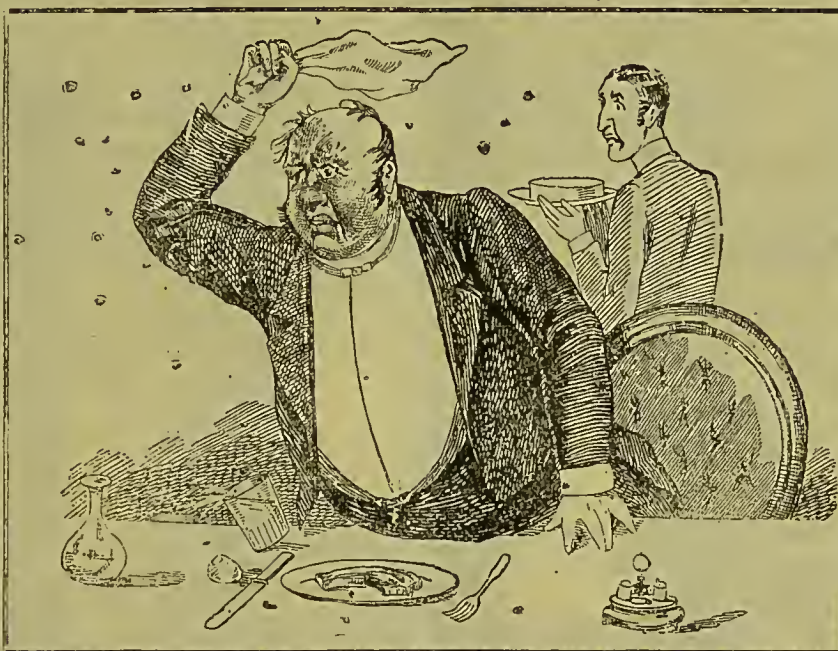
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"	"	"	180	1/-	"	"	175	175	6d.
"	"	"	120	1/4	"	"	160	160	9d.
"	"	"	100	1/6	"	"	112	112	1/-
"	"	"	70	2/-	"	"	65	65	1/6
"	"	"	60	2/6	"	"	60	60	2/-
"	"	"	30	3/-	"	"	50	50	2/6
"	"	"	24	4/-					

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On Strings of 1 dozen pieces, or loose in Bags.

At per dozen.
3/- 4/- 6/- 9/- 12/- 15/- 18/- 24/- 30/- 36/- 42/- 48/- 54/- 60/- 66/- 72/-

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On Strings of 12 pieces, or loose in Bags.

	At per string or dozen.				
Wool Toilet	2/-	3/-	4/-	6/-	9/-
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Fresh line, mounted on handsome blue card
of new design.

We originated the Carding of sponges, and continue to
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"Nothing has done so much to popularise the use of
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HONEYCOMB and TURKEY.

Retail.	Per Gross.	Retail.	Per Gross.
School, 1/2d., 2 doz. on card	3/-	Toilet, 1/6, 1/2 doz. on card	108/-
" 1d., 1 " " "	6/-	" 2/-, 1 " " "	144/-
Toilet, 2d., 1 " " "	12/-	" 2/6, 1 " " "	180/-
" 3d., 1 " " "	18/-	" 3/-, 1 " " "	18/- doz.
" 4d., 1 " " "	24/-	Bath, 3/6, 1 " " "	21/-
" 6d., 1 " " "	36/-	" 4/-, 1 " " "	24/-
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A FULL LINE OF CHAMOIS LEATHERS, SPONGE BAGS, LOOFAH CLOVES, & LOOFAHS AT SPECIALLY LOW PRICES.

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DISINFECTANTS.
PINK CARBOLIC POWDER,**
15% Strength, as required by the Vestries.

IN ENAMELLED TINS, PERFORATED LIDS.

1-lb., 6d. size	42/-	per gross.
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2d. size...	9/-	per gross.	1-lb.	...	36/-	per gross.
4d. ,, ...	16/-	..	2-lb.	...	54/-	..

CHLORIDE OF LIME,

*In Damp-proof, Smell-proof, Non-corroding
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2d. size	...	9/6	per gross.	6d. size	...	44/6	per gross.
4d. ,,	...	23/6	..	1/-	..	68/-	..

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To Hang up on any Nail.

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COMPLEXION CREAM**

Removes Wrinkles, Superficial
Eruptions, Irritation, Inflamed Eyelids;
Heals Burns, Cuts, Bruises, Insect Bites,
and is invaluable for Eczema.

Highly recommended by "LANCET"
and Dr. STANTON.

Miss ELLEN TERRY says: "Nothing
can compare with it."

IVORINE HAIR BALSAM

Prevents Baldness and Greyness,
removes Dandruff, stimulates vigorous
Growth, and imparts a softness and
glossiness unrivalled by other prepara-
tions.

PEARLINE Dentifrice preserves Teeth, renders them pearly
white, and gives delightful fragrance to the breath.
CREAM and BALSAM, 1/6 each. PEARLINE, 1/- Proprietors—

BAILEY'S TOILET COMPANY, BEDFORD.

Wholesale Prices:—

CREAM and BALSAM, 12/- each; PEARLINE, 8/- per dozen.

Dr. O. E. HORN'S

SCIENTIFIC SPECIALITIES FOR

THE HAIR, SCALP AND SKIN.

"EAU HORN," "GERMANIA HAIR
TONIC," "ACESMA," "HAIR
SOLVENT," "SKIN FOOD," and
numerous other preparations are
having an extensive sale.

WELL ADVERTISED. GOOD DISCOUNTS.

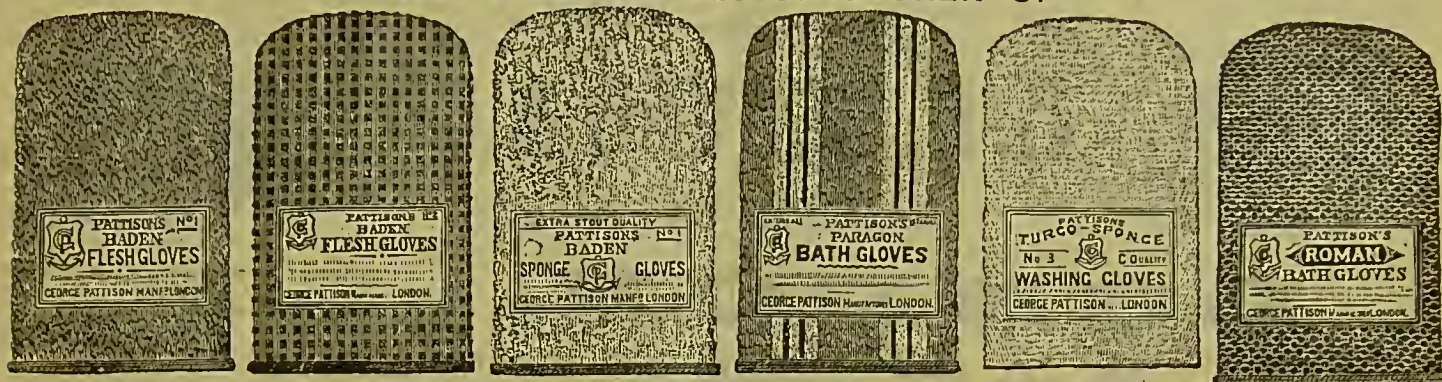
Send for Price List and attractive Show Cards to the
sole manufacturers,

CASSIE & CO., Chemists, LONDON.
49 Newgate St.,



GEORGE PATTISON,

197 St. John Street Road, LONDON, E.C.
THE ORIGINAL MANUFACTURER OF



BATH GLOVES.

MANY VARIETIES AT FROM 2/- PER DOZ. PAIRS.



"ANGLO-NORWEGIAN" COD-LIVER OIL.

SEASON 1894.

This Cod-Liver Oil is pure, stands the cold without solidifying, and is quite sweet, with an agreeable odour of the fresh liver. It is the **FINEST** oil, with the least possible colour, taste, or smell.

An assortment of artistic Labels, with Chemist's Name and Address, free.

EVANS, LESCHER & WEBB,
60 BARTHOLOMEW CLOSE, LONDON.

Where to Buy? HORNCastle.

What to Buy?

See our monthly Prices Current of Drugs, Chemicals, Pharmaceutical Preparations, Essential Oils, Gums, Crushed Linseeds, Ground Drugs, and Spices, &c., which will be sent free on application.

Why?

- Because** we lay ourselves out to do business and to meet, and in most cases overcome, competition.
- Because** we quote to great advantage all going Drugs, Preparations, Chemicals, &c.
- Because** the high quality of our goods is greatly appreciated by our customers.
- Because** we don't keep more cats than will catch mice, but give the details of business unremitting personal attention.

Therefore

Write for quotations and samples.

W. KEMP & SON,
Wholesale Druggists
and Manufacturing Chemists,
HORNCastle.

"WHEN BUYING, BUY THE BEST."



C. H. GLOVER & CO.

HATCHAM SAWMILLS,

LONDON, S.E.

ARE THE SOLE PATENTEES AND MANUFACTURERS OF

GLOVER'S PATENT WIRE BOUND CRESCENT STEEL



For Beers, Wines,
Aerated Waters,
&c., &c.

LARGEST MAKERS IN
LONDON.

Please mention this Paper when
inquiring.

"A CAPITAL IDEA"!!
Said friend JONES, the GO-AHEAD CHEMIST. "I'VE DOUBLED
MY TRADE last year since I commenced packing all my
customers' prescriptions in Glover's small wood
boxes."
And JONES CHUCKLED!!

WOODEN BOXES
ALL SIZES
MADE TO ORDER

TRADE MARK

PRICE 14/-
per doz. nests of 6
Boxes, planed and binged,
from 5" x 2 1/2" x 1 1/2" to
3 1/2" x 6 1/2" x 4 1/2". Nests of 6 for Bottles,
4 oz. to 18 oz., at same price. Single nest, 1/8.
Special Terms for Large Quantities to Shippers.

"CAPITAL, INDEED"!!!
Said the Colonial Shipper. "Those light nested
boxes shipped in cases (each containing 4-gross nests),
are just what is wanted, and I am getting repeat orders
doubled. We are all indebted to the Makers,
Messrs. C. H. GLOVER & CO., of Hatcham Sawmills, Ormeide St.,
Old Kent Road, LONDON, S.E."!!

For Soda Waters,
Medicated Wines,
&c., &c.

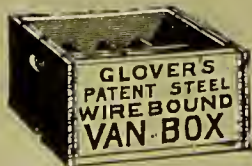
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BOXES & CASES.

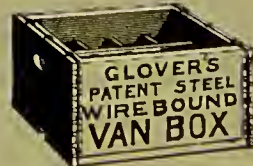
N.B.—We are also making our Patent Wire-Bound VAN BOXES up specially

FOR EXPORT TO COLONIES.



PACKED SECURELY

In Bales,
ready for putting together
at destination.



Complete with Fittings, Nails, Wire Binding, &c., thus saving
considerably in freight.

C. H. GLOVER & CO., HATCHAM SAWMILLS, LONDON, S.E.

TO MERCHANT SHIPPERS.

BRATBY & HINCHLIFFE, LIMITED, of Manchester, Glasgow, and London, desire to call the attention of Merchant Shippers and others charged with the execution of Indian and Colonial Indents to the following facts in regard to Aërated Waters and Machinery for the Manufacture thereof:—

The first requisite for the production of Aërated Waters of high quality is the best machinery obtainable.

Equally important is it that the machinery should be constructed on the most perfect mechanical principles, of the soundest materials, with the best workmanship, and critical regard of probable metallic contamination of the products.

These are factors which BRATBY & HINCHLIFFE, LD., have made the study of their lifetime, and while keeping pace—or rather leading the way—in mechanical improvements for saving labour and producing waters at the highest speed, they have adhered to the first principles of the industry in regard to quality and skill of construction.

BRATBY & HINCHLIFFE, LD., are in touch with Indian and Colonial requirements. Their Aërated-water Plant has been supplied to many of the largest makers, to Army Messes, &c., and their knowledge of climatic conditions and the needs of manufacturers abroad enables them to give prompt and special advice to Merchant Shippers.

It will aid such materially to have by them a copy of BRATBY & HINCHLIFFE'S CATALOGUE, of which THE CHEMIST AND DRUGGIST says:—"It is a remarkably perfect and "extremely useful illustrated catalogue of soda-water plant and appliances. The catalogue fills over "100 quarto pages, is printed on fine paper, and is lavishly illustrated. Everything is priced, the "numerous special machines manufactured by the company are fully described, and the firm give a "dozen specimens of fitting-up orders, ranging from £61 1s., complete, to £533 18s."

Chemists and Drug Shop keepers abroad who are thinking of fitting up a Soda-water Factory are invited to correspond with BRATBY & HINCHLIFFE, LIMITED, or Orders can be indented through any Merchant Shipper with instructions to purchase their Machinery.

CATALOGUE ON APPLICATION.



TRIPLE CONCENTRATED FRUIT SYRUPS

NON-ALCOHOLIC WINES, AND MEDICATED WINES, IN BOTTLES.

FRUIT SYRUPS.

Winter, Summer, & Tonic Beverages.

(Highly Concentrated.)

The following are put up in 2 sizes.

Bottles included in price.

Jars and Casks charged extra.

		Reputed Pints. Per Doz.	Reputed Qts. Per Doz.	Gallons. Per Gallon.
Triple Concentrated				
LEMON SYRUP	...	7/6...	12/6...	5/-
GINGER	"	7/6...	12/6...	5/-
LIME FRUIT SYRUP	...	7/6...	12/6...	5/-
ORANGE	"	7/6...	12/6...	5/-
STRAWBERRY	"	7/8...	12/6...	5/-
RASPBERRY	"	7/6...	12/6...	5/-
BLACK CURRANT SYRUP	7/6...	12/6...	5/-	
RED CURRANT	"	7/6...	12/6...	5/-
CHERRY	"	7/6...	12/6...	5/-
PEPPERMINT	"	7/6...	12/6...	5/-
CLOVE	"	7/8...	12/6...	5/-
MALT	"	7/8...	12/6...	5/-
SARSAPARILLA	"	7/6...	12/6...	5/-
RASPBERRY VINEGAR	7/6...	12/6...	5/-	
PHOSPHATED SYRUP	11/-...	16/-...	10/6	
QUININE	"	11/-...	16/-...	10/6
LEMON SQUASH	"	7/6...	12/6...	5/-
LIME & RASPBERRY	"	7/6...	12/6...	5/-
ORANGE &	"	7/6...	12/6...	5/-



WINES.

NON-ALCOHOLIC, IN BOTTLES.

SIX TO THE GALLON.

JAMAICA GINGER	...	8/6	Doz.
GREEN GINGER	...	8/6	"
ORANGE	...	8/6	"
RICH RAISIN	...	8/6	"
DRY RAISIN	...	8/6	"
BLACK CURRANT	...	8/6	"
RED CURRANT	...	8/6	"
WHITE CURRANT	...	8/6	"
ELDER	...	8/6	"
RASPBERRY	...	8/6	"
GOOSEBERRY	...	8/6	"
COWSLIP	...	8/6	"
GRAPE	...	8/6	"
CHERRY	...	8/6	"
ORANGE TONIC	...	8/6	"
QUININE TONIC	...	8/6	"
MUSCATEL	...	8/6	"

MEDICATED WINES.

		Reputed Pints.
Kola Wine, in bottles, 3/6 size	...	27/6 Doz.
Tonic Kola Wine	"	3/6 size...27/6 "
Coca Wine	"	3/6 size...18/- "
Quinine Wine (B.P.), 6 to gall.	...	17/- "
		Imperial Pints...14/6 "
Iron Wine (B.P.) in bts.	3/6 size	27/6 "
Rhubarb Wine	"	3/6 size 27/6 "

WHOLESALE ONLY FROM
BRATBY & HINCHLIFFE, LIM.
 Manufacturing and Analytical Chemists,
 SANDFORD STREET, ANCOATS, MANCHESTER;
 ALSO AT 81 ROBERTSON ST., GLASGOW, AND 146 MINORIES, LONDON, E.

THE FAMOUS

ECLIPSE

Eclipse

BRAND

SELTZOGENES.

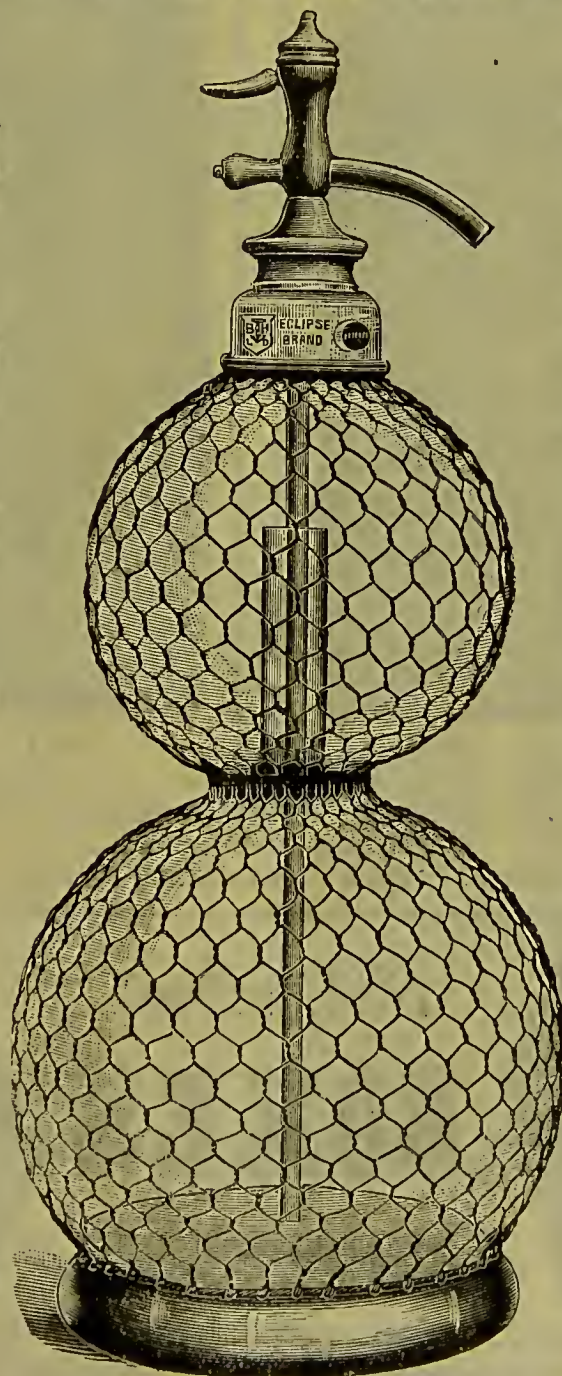
For the instant preparation of SODA OR SELTZER WATER, LEMONADE, AERATED WINES, &c.



Ingenious, yet simple in their construction, they have obtained a wide celebrity and been brought into extensive use.

By their means Soda Water, Seltzer Water, Lithia Water, and all kinds of Aerated Waters can be made almost instantly.

The simplicity and ease with which they can be worked commend them to all.



WHOLESALE PRICES ONLY.

FIRST QUALITY PURE BLOCK TIN TOPS.

3 Pint 7/6 each

5 „ 10/5 „

8 „ 16/- „

Including Two Funnels and Stopper for Charging.

SECOND QUALITY.

3 Pint 7/- each

5 „ 9/11 „

8 „ 15/6 „

Including Two Funnels and Stopper for Charging.

Nickel Plating, 4d. each extra.

Silver „ 1/6 „

BEST SELTZOGENE POWDERS.

Per Box net

Boxes containing 12 charges for 3-pint Seltzogene ... } 1/6

Boxes containing 12 charges for 5-pint Seltzogene ... } 2/-

Boxes containing 12 charges for 8-pint Seltzogene ... } 3/3

FULL DIRECTIONS FOR USE SENT WITH EACH SELTZOGENE.

WOODEN POWDER MEASURES.

For 3 pint Seltzogene 4/- doz.

„ 5 „ „ 6/- „

„ 8 „ „ 8/- „

DRIP CUPS.

Made of Pure Tin ... 7d. each.

BRATBY & HINCHLIFFE, LIM., SANDFORD STREET, ANCOATS, MANCHESTER.

AND AT 81 ROBERTSON STREET, GLASGOW, AND 146 MINORIES, -LONDON, E.

PATENT GLOBE-STOPPERED MINERAL WATER BOTTLES

WITH SPECIALLY SAFE GROOVE.



Fig. 1.

Fig. 1 requires no opener, the stopper being released by means of the glass valve in neck. A simple pressure of the thumb is sufficient.



Fig. 2.

Fig. 2 is an improvement on the original shape shown in Fig. 1, and can be inclined two ways in pouring out contents.



Fig. 3.

Fig. 3 combines the advantages of Fig. 2, with safety indentations for holding the stopper during process of brushing.

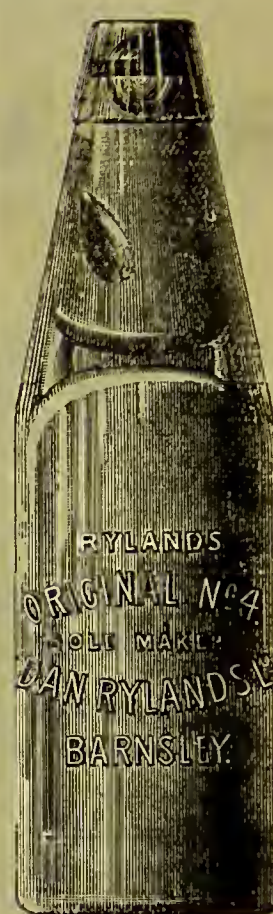
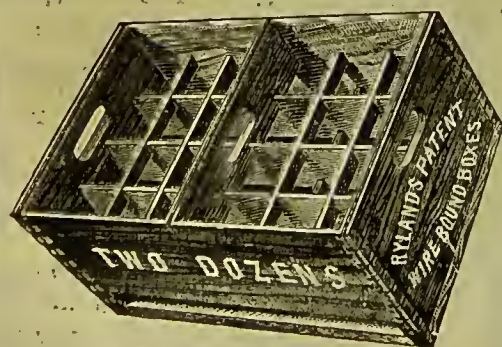


Fig. 4.

SYPHONS

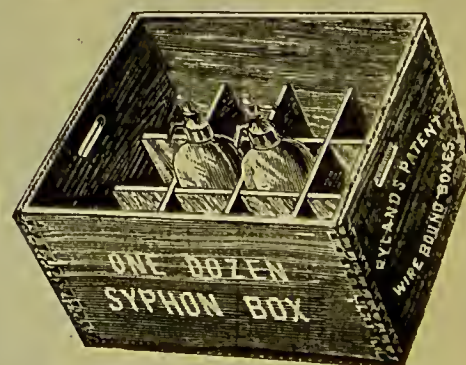
BLOCK TIN TOPS. NICKEL-PLATED TOPS.
SILVER-PLATED TOPS.
WHITE VASES. COLOURED VASES.

SYPHONS



Patent Wire-Bound
BOXES

STRONG, NEAT, DURABLE.



Prices and Full Particulars from the Patentees and Makers,

DAN RYLANDS LIMITED, BARNESLEY.

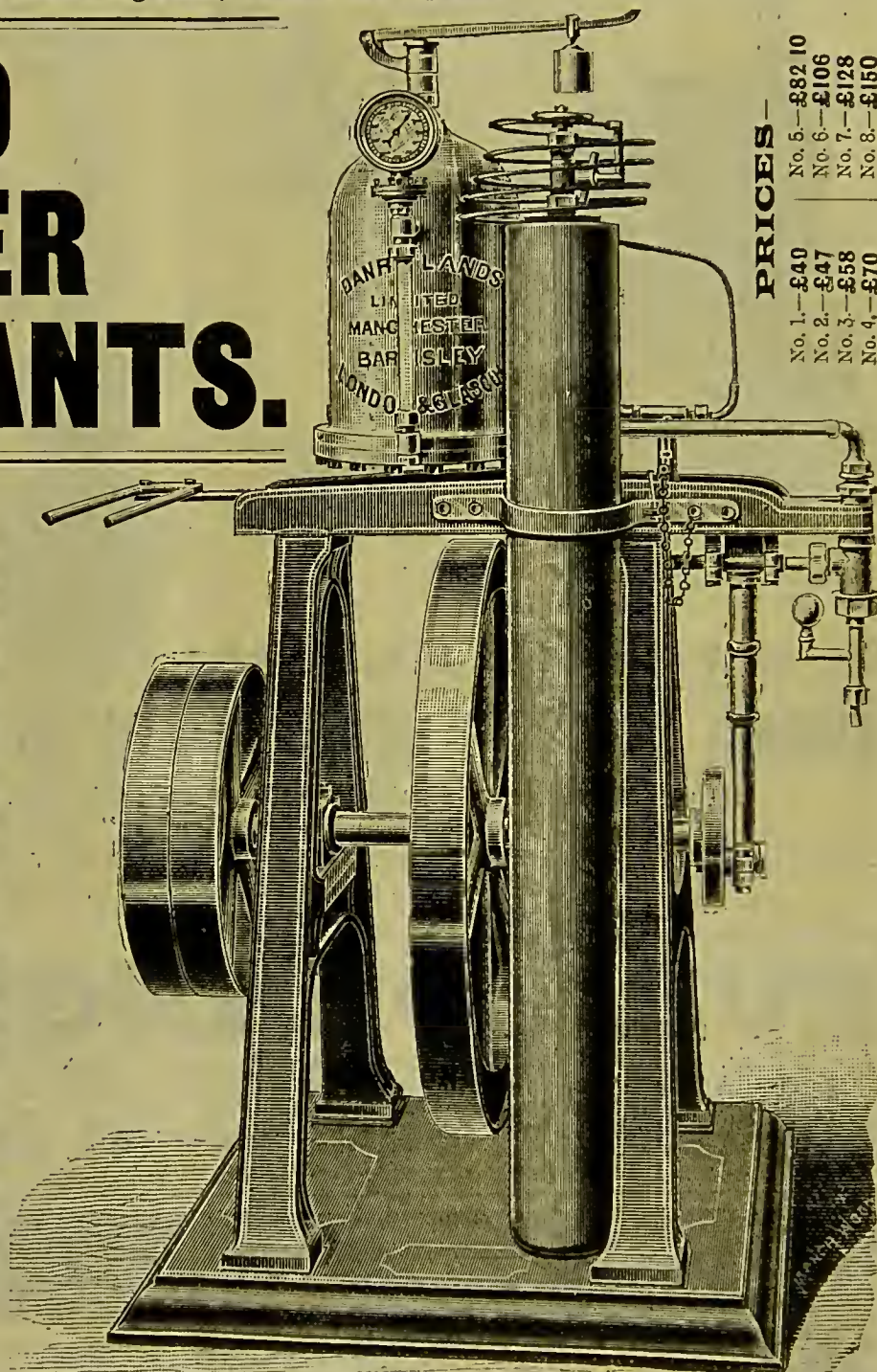
CHEMISTS MAY SAFELY INVEST

In these Machines if they wish to produce their own Aerated Waters.

These Plants are peculiarly suited for Chemists who have little room to spare, and who wish to adopt the easiest and cleanest system. The use of whiting, acid, and other raw materials is entirely dispensed with. Pure Compressed Carbonic Acid Gas, supplied in steel tubes, is used with these machines; this gas is made to pass direct into the cylinder of the machine, entirely doing away with the old-fashioned generator and gasholder, and saving room, trouble, and expense.

AERATED WATER PLANTS.

The Compressed Gas supplied by us for use with these machines (and of which we keep an abundant stock on hand) is of the very purest quality. Our experience in this matter has led us to the conclusion that natural gases, or gases gathered as bye-products from other manufactures, are so contaminated by bituminous gases or gases from organic matters, as to make them quite uncertain in their purity; and therefore unsafe to use in this business, where the flavour of the compounds are so delicate that the slightest impurity in the Gas will destroy them entirely. Our experience and these considerations have led us to the determination to only sell for use for Aërated Water manufacture, Gas made by the only known pure process; that is, the combustion of carbon and atmospheric air. All noxious gases are burnt in this process, and the resulting gases are passed through an absorbent which will only absorb the Carbonic Gas, while the other products of combustion pass away. We have by this means the purest Carbonic Gas, which fact is doubly assured to us by the knowledge that the usual contaminating Gases have never been there. We supply the Gas in tubes of large or small sizes to suit our customers, and at a price that will defy competition with a really pure article.



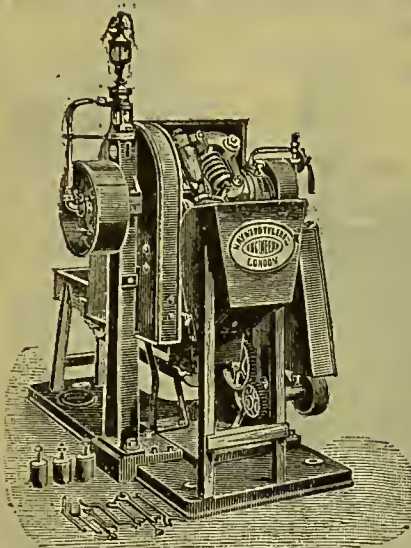
PRICES—	
No. 1.—	£40
No. 2.—	£47
No. 3.—	£58
No. 4.—	£70
No. 5.—	£82 10
No. 6.—	£106
No. 7.—	£128
No. 8.—	£150

These Plants are really good serviceable machines, suited to supply either the largest Factories with from 3,000 to 4,000 dozens per day, or the smallest Chemist's Shop, where room is so valuable; and will turn out Aërated Waters, either in Bottles or Syphons, which cannot be surpassed for quality by any machine made. These Plants are not toys, as are too many of the Compressed Gas Machines which have been offered to the public; but are of the very best make, with strong Gun Metal Cylinders, and entirely free from any metal which will contaminate the waters. As no Generator or Gasholder is used with these machines, they occupy very little space, and no doubt this economy in price of the whole Plant, will commend these machines to those to whom these qualities are of the utmost importance.

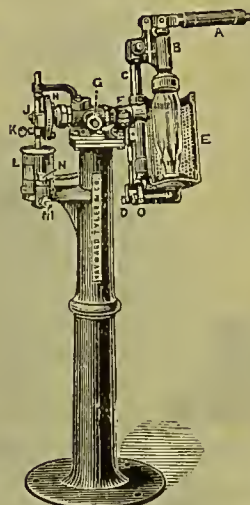
DAN RYLANDS, LIMITED, BARNLEY.

HAYWARD TYLER & CO.

AWARDED FOR

AERATED WATER MACHINERY**FOUR GOLD MEDALS.**

Revolver for Ball Stoppers.



Turnover Filler.

Telegrams—"Tylerox."

Telephone No. 192. [2]

90, 92 WHITECROSS STREET, E.C.

ESTABLISHED NEARLY FIFTY YEARS.

PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

EUGENE GERAUT & CO.'S

LATEST

NEW PATENT SELTZOGENE

PATENT No. 18,305.

For the immediate Preparation of Seltzer Water, Eau de Vichy,
Soda Water, Sparkling Lemonade, Aerated Waters, &c.

Finding so many complaints through the screws of Seltzogenes getting worn and Customers not screwing taps on tight enough, E. G. & Co. have patented the above improvement in their Seltzogenes, which differs materially from the numerous kinds that have from time to time been introduced, there being no screwing required, thus the machines cannot easily get out of order.

In place of Screw on Tap, there is a *Clip*, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at Top, and making perfectly Air-tight the Apparatus.

**WEAR AND WORKING GUARANTEED.
NO MORE SCREWING REQUIRED. TAP
CANNOT GET CORRODED.**

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

SOLE ADDRESS—

**139 & 141 FARRINGTON RD.,
LONDON, E.C.**

Gazogenes and Seltzogenes Repaired.

BANGOR CITY AND NORTH WALES CO.'S MINERAL WATERS.

Highly Recommended in the "Lancet," April 25, 1891, and April 8, 1893; and the
"British Medical Journal," July 11, 1891.

CORKED BOTTLES FOR HOME TRADE OR EXPORT. EXPORT ORDERS DELIVERED F.O.B. LIVERPOOL.

Wholesale Agent in Barbadoes—MR. C. F. INCE, BRIDGETOWN.

N.B.—Our syphon list being quite full we cannot open any new accounts in this branch until the end of the summer.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopoeia.

MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.**A. MILLAR & CO., DUBLIN; and 47 MARK LANE, LONDON, E.C.**

Or of H. J. BOYDANT & CO., 75 Acre Lane, BRIXTON, S.W.

STEVENSON & HOWELL'S
SOLUBLE ESSENCES FOR HIGH-CLASS AERATED WATERS.

SOL. ESS. LEMON.

SOL. ESS. JAMAICA GINGER.

SOL. ESS. IRISH GINGER ALE.

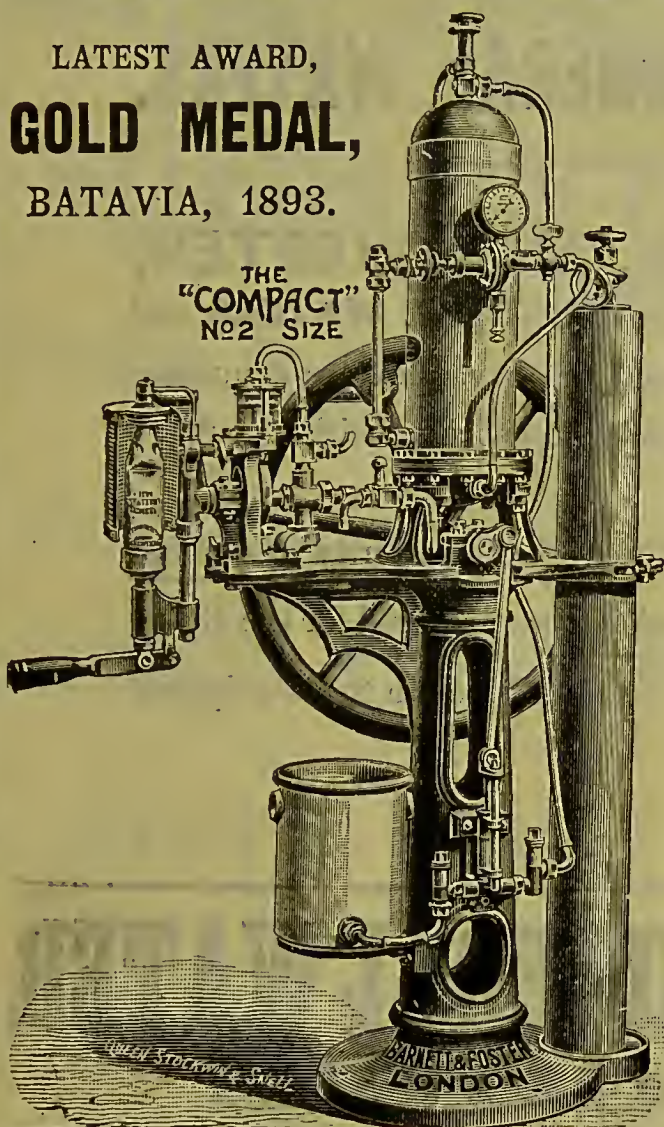
SOL. ESS. KOLA CHAMPAGNE.

All the above are in constant use in all the best aerated-water factories in the United Kingdom and Colonies.

STANDARD WORKS. 95a SOUTHWARK ST., LONDON. Distillery—OLD PARIS GARDENS.

SODA WATER MAKING

LATEST AWARD,
GOLD MEDAL,
BATAVIA, 1893.



WITH
LIQUEFIED CARBONIC ACID GAS,

The "COMPACT" Machines

ARE THE
**SIMPLEST, CHEAPEST, AND MOST ECONOMICAL
IN THE WORLD.**

No. 1 Size, complete with Turnover or Syphon
Filling Machine... .. £60

Producing Capacity by Hand-power 60 dozen per hour.

No. 2 Size, complete with Turnover or Syphon
Filling Machine... .. £48

Producing Capacity by Hand-power 35 dozen per hour.

No. 3 Size, complete with Turnover or Syphon
Filling Machine... .. £35

Or without Syphon Pump to Turnover Machine £33

Producing Capacity by Hand-power 20 dozen per hour.

ANY OTHER KIND OF FILLING MACHINE CAN BE ATTACHED.

Iron Vessels containing an average of } 10s.
28 lbs. by weight of Liquefied Gas } each,

Containing sufficient Gas to manufacture about 18 gross of
highly-charged Soda Water (10-oz. Bottles), or double this
quantity of splits.

Occupy little space! No skilled labour needed!
Require no fixing! Cleanly in operation!



THE
'LONDON-MADE' SYPHON

(Title Registered).

It is the Cheapest, Strongest, Hand-
somest, and Best in the World.

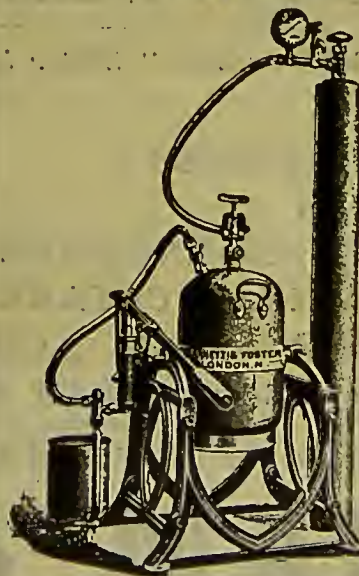
Pure Block Tin Tops and
Bohemian Glass Vases.

PRICE 1/6 EACH.

Nickel-plating Tops from 3d. each.
Silver-plating Tops from 4½d. each.
Marking on Tops Free for orders of
250. Marking on Vases Free for
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Tested to 300 lbs. pressure.

THE PORTABLE CYLINDER,



As here shown, is charged with
plain filtered water while on the
Rocker; the gas from the vessel is
then slowly turned on, and the
copper cylinder rocked backwards
and forwards sharply so as to
agitate or mix the water and gas
together. When charged to the
required pressure (about 110 lbs.,
shown by the pressure-gauge), it
can be removed and attached to
the Counter Fountain, or to a
filling machine if desired.

Prices. £ s. d.

Six-gallon Tinned Copper			
Cylinder	5	10	0
Cast-iron Rocker ..	1	2	6
Flexible Pipe, Pressure-			
gauge, Safety-valve, &			
Connections	3	3	0
If fitted with Pump for			
pumping the water			
into the cylinder (and			
so avoiding waste of			
gas) extra	5	5	0

Portable Cylinder with Pump fitted
to Rocker.

Prices of larger Cylinders upon
application.

ILLUSTRATED CATALOGUE FORWARDED FREE UPON APPLICATION TO
BARNETT & FOSTER, "Niagara Works," **LONDON, N.**
26th Eagle Wharf Road,

TO EXPORTERS OF MINERAL WATERS.

JEWSBURY & BROWN, MANCHESTER,
specially prepare and pack their unrivalled MINERAL WATERS and
AERATED BEVERAGES for Export, and will have pleasure in quoting
prices and terms delivered free alongside ship at any British port.

Wherever these Waters have been introduced the superiority of quality,
style, and freedom from Leakage and Breakage have secured for the Brand
preference with the consumer, and given every satisfaction to the shippers.

'OBERBRUNNEN' MINERAL WATER OF GREAT VALUE IN GOUT.

"Of all the Mineral Springs at Salzbrunn, the Oberbrunnen is the most employed for
drinking purposes, as a remedial agent in particular."—PROFESSOR FRESENIUS.

The use of the "Oberbrunnen" Water is indicated in the following conditions:—

GOUT

URIC ACID DIATHESIS

GALL STONES

HEPATIC DERANGEMENTS

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THROAT AFFECTION

LARYNGEAL CATARRH

PULMONARY EMPHYSEMA

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RICKETS

Trade price **10/-** per dozen, or **38/-** per case of 50 bottles, CARRIAGE PAID.

Samples and Pamphlet free on application to the Sole Importers—

INGRAM & ROYLE.

LONDON : 52 Farringdon St., E.C. LIVERPOOL : 19 South John St.

DETAILED PRICE LIST (CARRIAGE PAID) OF ALL NATURAL MINERAL WATERS ON APPLICATION.

IDRIS TABLE WATERS

HAVE OBTAINED THE

HIGHEST AWARDS

WHEREVER EXHIBITED.

IDRIS & CO. more effectually protect their customers' interests, and enable them to do a larger trade in Mineral Waters, than any other firm or Association.

COMPETITORS with Chemists are NOT SUPPLIED by IDRIS & CO.

CHEMISTS WHO WISH TO DO A LARGE TRADE

SHOULD SELL

IDRIS TABLE WATERS.

IDRIS & CO.'S FACTORY is the best equipped in the world, and is always open to the inspection of any person presenting his visiting card any day of the week, morning or afternoon. But to inspect the various departments thoroughly takes about two hours, and persons wishing to make a complete inspection of the Engineering, Syphon-making, and Syphon-filling Departments are invited to come on Mondays. The Laboratories, which are very completely furnished for Chemical, Microscopical, and Bacteriological Research, are under the direction of a Fellow of the Institute of Chemistry, and are open for the investigation of any subject bearing upon water.

SAMPLES AND PRICE LISTS FREE.

IDRIS & CO., Ltd.

Purveyors of Table Waters by Royal Warrant
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TELEGRAMS—"IDRIS" CAMDEN TOWN.

ASTLEY COOPER'S
PURE ENGLISH
GELATINES.

For Confectioners, Manufacturing Chemists
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THEY ARE CHEAPER THAN FOREIGN, and absolutely free from
Sulphur, Acid, and all Chemicals. Samples and prices free from the
Sole Manufacturers,

ASTLEY COOPER & CO.
Analytical & Consulting & Manufacturing Chemists, LEEDS.

HIRST, BROOKE & HIRST (LIM.), LEEDS,
Manufacturing Chemists and Wholesale Druggists, Manufacturers of
ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

**"COCA-TONIC-
CHAMPAGNE"**

(LAURENT-PERRIER).

The only combination of high-class Champagne with Coca Leaf Extract, by actual Champagne Growers.
Well matured, free from Acidity, and absolutely without Sugar.

Prices:— $\frac{1}{2}$ -Pints, 24/-; Pints, 45/-; Quarts, 84/- per dozen.

Of all Wholesale Houses, or direct from the Sole Consignees, HERTZ & COLLINGWOOD, 4 Sussex Place, Leadenhall St., London.

WARNING TO THE TRADE.



IN BOTTLES, 6d., 1s., and 2s. EACH.

SOLE INVENTORS AND MANUFACTURERS—

NEWBALL & MASON, MANUFACTURING CHEMISTS, NOTTINGHAM.

Prices, Circulars, Showcards, &c., on application.

BUSH'S "SPECIALITY" LEMON OIL

"Pure as the Unsullied Lily."

Manufactured at our Works in Messina from Selected Fruit, admitted by honest judges to be without exception the Finest in the World. Pure Oils necessitate higher prices, but they give most satisfaction, and are cheapest in the end.

Buy direct from the Makers, and save intermediate profits.

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This Oil is now generally Prescribed by the Profession, and we entreat Chemists to dispense it.

It is drawn from selected wood, and always reliable.

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PURE LIME-FRUIT JUICE.

In Imperial Quarts and Pints.

LIMETTA, OR PURE LIME-JUICE CORDIAL,

Aromatic, Clove, Strawberry, Raspberry, Sarsaparilla, Pineapple,
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The "Montserrat Company's"
Lime-Fruit Juice and Cordials are
now in large and general demand
everywhere, and are being exten-
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Showcards, Handbills, and
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EXCEPTIONAL VALUE.



ORANGE AND QUININE WINE, B.P.

In 26-oz. Bottles, 10/- per doz.

Prepared with HOWARDS' Sulphate of Quinine.

The Chemist and Druggist says:—"Messrs. STEPHEN SMITH & Co., of Bow, E., are putting on the market an orange-quinine wine in wine-quart bottles. It is made according to the British Pharmacopœia, and they have sent us a sample, which we have examined critically. The orange-wine from which the preparation is made is of a pale-brown colour, good orange odour, and contains 7 per cent. of soluble matter other than quinine. This is mainly sugar. Its alcoholic strength we find to be equal to 25 per cent. proof spirit, or 11·8 per cent. by weight of alcohol, so that it is the higher standard recognised by the Pharmacopœia. The alkaloidal value of the wine is also satisfactory. Three ounces of it yielded 2·3 grains of ether-soluble alkaloid, equal to 2·7 grains of sulphate of quinine, and allowing for experimental loss and the usual cinchonidine content (not extractable by ether) it will be seen that the wine has obtained not only the pharmacopœial *quantum*, but that it has lost little of it by tannic precipitation."

HIGH CLASS SHERRY, B.P., for Pharmaceutical purposes and Drinking, 6/6 per gall., 16/- per doz.

EXTRA PALIDO SHERRY, delicate Dry Wine, 7/3 per gall., 18/- per doz.

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SAMPLES OF ANY OF THE ABOVE FREE.

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YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

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The Best in the World. 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

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Makes the Best Ginger-Beer. Packets, 3d. and 6d.

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Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

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Make a Delicious and Nutritious Jelly. In $\frac{1}{4}$ -pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

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The continued and constantly increasing recommendation of this preparation by the medical profession should be a sufficient guarantee of its purity and efficacy. Were further proof wanting the *Lancet* and *Analyst's* reports would be perfectly convincing. Invaluable in Fevers, Cholera, Diarrhoea, Liver Disorders, Indigestion, and all troubles of the stomach and bowels absorbing all impurities.

Biscuits in tins, 1/-, 2/-, and 4/-.

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Lozenges in tins, 1/1 $\frac{1}{2}$.*Show Cards and Bills on application.*

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GRANULAR EFFERVESCENT PREPARATIONS.

ACETIC ACID. ACETATE POTASSIUM.

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Sole Proprietors and Manufacturers of

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SEMPER-DULCIS OR EVER-SWEET,

For Milk, Cream, Butter, Sausages, &c., &c.

FINEST BUTTER-COLOUR (Buttercup Brand)

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Essence of Beef
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Beef Tea Jelly
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Meat Juice
Malted Food for Infants
Extract of Malt
"O.K." Bouillon
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"O.K." Relish
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"Yes!—All made with
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Custards
Puddings
Blanc-manges
Fritters
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APPOINTED IN 1857
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THE USES OF BROWN & POLSON'S CORN FLOUR.

Boiled with MILK, it furnishes a **NOURISHING** and **EASILY DIGESTED FOOD**, valuable for **CHILDREN** and **INVALIDS**.

Makes **DAINTY DISHES** for **BREAKFAST**, **DINNER**, and **SUPPER**.

Is a favourite **DELICACY** as **BLANC-MANGE** with **STEWED FRUIT** or **PRESERVES**. Makes delicious **TABLE-JELLIES**, prepared with the **JUICE** of **FRUITS**, and also with **COFFEE**, **COCOA**, **WINE**, &c., instead of **Milk**. Excellent for **PUDDINGS**, **FRITTERS**, **OMELETES**, **PIE-CRUSTS**, **CAKES**, **SPONGES**, &c.

Owing to its **STRENGTH** and **DELICATE FLAVOUR** is a valuable **Thickening** for **SOUPS**, **SAUCES**, **GRAVIES**, &c.

BROWN & POLSON'S CORN FLOUR is prepared from the finest portions of the Maize Grain by a process invented and patented by **BROWN & POLSON** in 1854. It was introduced and NAMED "**CORN FLOUR**," the name originally invented by them for this article, in 1856, being thus the **FIRST MANUFACTURED IN GREAT BRITAIN**; and since then it has gained for itself and maintained a world-wide reputation for its **UNVARYING EXCELLENCE** of **QUALITY**.

BROWN & POLSON have also a standing of 50 years as Starch Manufacturers, their first patent having been taken out in 1842. They supply all sorts of Maize and Sago Starches. Maize Starch, although not a cold-water Starch, is excellent for household and public laundry purposes.

When made up with boiling water it is quite thin and limpid, enters easily into the fibre of the most delicate texture, and imparts a glossy clear finish and flexible stiffness, not easily affected by damp.

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We use Alto Douro Port Wine, Kepler Extract of Malt and Beef Jelly, containing 53.40 Albumen.

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The most eminent of the Medical Profession constantly do us the honour of prescribing "Glendenning's" particularly. Chemists who stock our preparation find their sales increase.

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An entire Diet for Infants, Children, and Invalids.

"Renders valuable assistance in Wasting Fever."
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Pamphlet containing Extracts from Standard Medical Works in which the above Testimony is given, sent free with Sample Tin on application to H. NESTLÉ, 9 Snow Hill, London, E.C.

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Which, through its RICHNESS in CREAM and UNIFORMITY of QUALITY, has obtained the Largest Sale in Great Britain. It can be used for all purposes of FRESH MILK.

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There is no Proprietary that will give you such a good return as "PEPSALIA"—40% on your outlay, and no "cutting," no "underselling."

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Send Postcard for Particulars and Form of Agreement to

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PERFECT MEAT PREPARATIONS AND DELICACIES FOR INVALIDS.

Put up in Glass.—Free from Metallic Contamination.

HIGHEST AWARD AT THE WORLD'S FAIR, CHICAGO.

Gold and Silver Medals at the Tasmanian and Kimberley Exhibitions.

ESSENCE OF CHICKEN.

PURE BEEF TEA

(CONCENTRATED).

INVALID TURTLE SOUP.

SAVOURY MEAT LOZENGES,

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MEAT JUICE

(CONCENTRATED).

A superior preparation, made from the best British Beef, prepared by a new process which preserves the natural nutrient and stimulant properties of meat in the most suitable condition for immediate assimilation.

Pleasant and agreeable to the taste. Can be retained by the stomach in all cases.

Its restorative effects are prompt.

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THE VIKING FOOD AND ESSENCE CO.

At their new Factory, specially built for the manufacture of the above products,

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New Illustrated descriptive List Now Ready.

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THE BEST.**GLASS,**
FOR THE TABLE.FROM
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14/6 to 65/-**MAIN SERVICE**
(CONTINUOUS SUPPLY)FOR HOTELS,
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£3 8s. to £10 10s.**THE MAWSON FILTER CO., NEWCASTLE-ON-TYNE,**
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ESTABLISHED OVER 200 YEARS.

IS NOT ADULTERATED.**'DUCA DI CORIGLIANO'****THE CHEMISTS' LIQUORICE JUICE.****"THE BEST AND PUREST."**

Larger sale than any other first-quality juice. To be had of all Wholesale Houses.

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Peter Tyrer's SAUCES.

WORCESTER, READING, HARVIE, YORKSHIRE.

					Per Gross.			Extra Quality
1d. Sample Bottles, dozen parcels	...	...	...	...	5/3	...	...	6/6
1d. " " 1/2-gross boxes	...	...	...	...	5/9	...	...	7/-
1d. Giant " dozen parcels	...	...	...	...	6/6	...	...	9/-
" " 1/2-gross boxes	...	...	...	...	7/-	...	...	9/6
1/4 Bottles, flat or round, reputed 1/2 pints	...	...	...	...	16/-	...	...	26/-
1/2 " " " " pints	...	...	...	...	26/-	...	...	38/-
1 Pint Imperial, round stoppered bottles	...	...	...	...	52/-	...	...	62/-
12 1/2-Gallon Casks (<i>casks free</i>)	...	...	...	...	...each 20/-	...	...	32/-

ROYAL CAFE SAUCE,

A RICH FRUITY & EXQUISITE FLAVOUR.

Square Glass Stoppered Bottles, containing nearly 1/2 pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross. 8 oz. in dozs. 3/9 per doz.

"BOROUGH" KETCHUP.
SILVER MEDAL.

Cash Price—20s. for 12 1/2 Gallons.

CASKS FREE.

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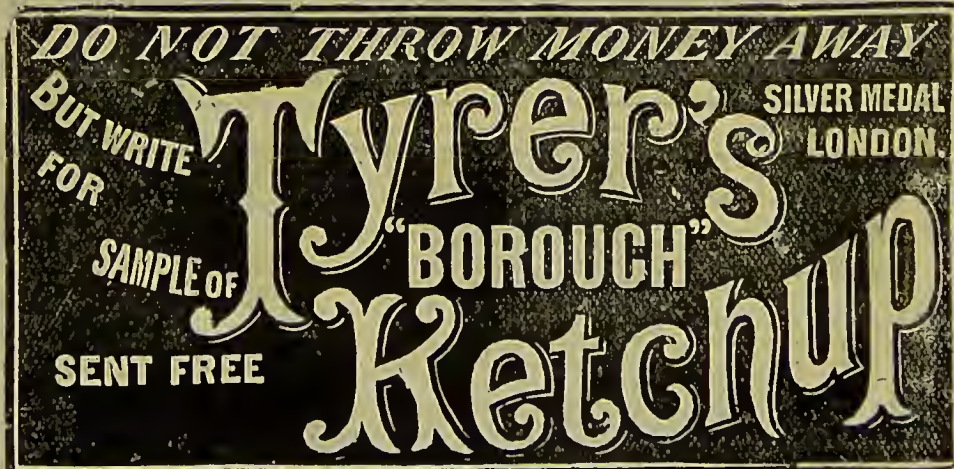
School of Cookery, Crystal Palace, S.E.,
January, 1883.

Mr. PETER TYRER.

SIR,—I have been using the "Borough" Ketchup, and am very pleased with it. Its flavour is excellent, both for all kinds of Savoury dishes and Soups; and I most certainly should advise every cook and housekeeper to use it, FOR I HAVE NEVER YET MET ITS EQUAL.

MARIAN SMITHARD,

[2] Lecturess on Cookery.



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W. H. & F. J. HORNIMAN & CO., LTD.

ORIGINAL IMPORTERS OF THE PURE TEA IN PACKETS.

Blended from the finest Spring Crops of the best gardens in India, China & Ceylon.

**BUY DIRECT FROM THE IMPORTERS THE BEST AND CHEAPEST PACKET TEAS
IN THE WORLD.**

For sixty years Horniman's Pure Tea has been celebrated for its high quality, great strength, and delicious flavour.

Certificates of Analysis from ARTHUR HILL HASSALL, M.D.,
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The demand is daily increasing from all parts of the country. With opening parcel are enclosed handsome Showcards, Transparencies, Bills, &c. Agents' Names are advertised at Railway Stations and in Local Newspapers.

ALL CHEMISTS AND DRUGGISTS SHOULD SELL

HORNIMAN'S PURE TEA

ON ACCOUNT OF ITS HIGHLY NUTRITIVE AND DIGESTIVE PROPERTIES.

Every Packet bears the signature and Registered Trade Mark of the Company as a guarantee of Purity.

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28, 29, 30, 31, 32 & 33 Wormwood St., LONDON, E.C.

Teas blended in Bond for Export, put up in Tins and Packets suitable for all parts of the World.

Bonded Stores ... BROOK'S WHARF, THAMES STREET.

DO NOT BE DECEIVED WITHOUT THE



REGISTERED TRADE MARK.

TOWER TEA

HIGHEST AWARD, PARIS, 1889.

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STANDARD BLENDED TEAS.

No. 1 Blend	10d.
1A	11d.
2	1/-
3	1/2
4	1/4
5	1/7
6	1/10

DUTY PAID PRICES.

CARRIAGE PAID on
60 lbs. and upwards
for NETT CASH.



SPECIAL CEYLON SIFTINGS.

MATCHLESS LIQUOR

To Retail at 1/4.

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DUTY PAID AND
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Handbills, Window
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The late Editor of the *Sanitary Review*, writing on "The Consumption of Cocoa," warns the public against the use of foreign cocoas containing alkali, and makes the following allusion to the firm of Cadbury Brothers:—"It is the aim and practice of this famous firm to send out cocoa absolutely pure, of the highest quality which art will permit."

A Stimulating Sustaining Cup Made Instantly

A SMALL SPOONFUL of CADBURY'S COCOA with boiling water or milk, will make a large breakfast cup of the most delicious, digestible, absolutely pure, and nourishing Cocoa, of the greatest strength, and the finest flavour, entirely free from any admixture.

Cadbury's Cocoa provides a refined daily beverage for the robust, the young, the old, and particularly those of weak and impaired digestion.



"The Typical"
"Cocoa of English"
"Manufacture—"
"Absolutely Pure."
—*The Analyst.*

"The Name CADBURY on any"
"packet of Cocoa is a guarantee of purity."
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DR. NANSEN'S POLAR EXPEDITION.—Messrs. Cadbury have supplied about 1,500 lbs. of Cocoa Essence and Chocolate in hermetically sealed tins, it being necessary that the provisions taken should keep good for seven years. Dr. Nansen has exercised a wise choice in selecting an absolutely pure cocoa of such typical excellence as Cadbury's.—*Vide Press.*

Price Lists, &c, apply—CADBURY'S, BOURNVILLE, near BIRMINGHAM. London Office & Showrooms—2 ROOD LANE.

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ROBERT GIBSON & SONS,

Medicated Lozenge Manufacturers,

CARLTON WORKS, ERSKINE STREET, HULME, MANCHESTER,

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The increase in our Export Business during the year 1893, although not at all of a sensational character, has been progressive and satisfactory.

Now that Manchester has become a Port with a great waterway to the sea, capable of accommodating the largest ocean-going Steamers, and in direct communication with every Port in the world, we hope to receive larger orders, both direct and through London and Manchester Houses. Being now able to deliver goods on our own Lurries to the Ships' Dock, risk and cost of transshipment will be avoided, and the cost of transit necessarily considerably reduced. With these facilities and advantages we hope for a large increase on our Export business in 1894, to further which we shall be happy to send f.o.b. small sample orders to all those who are yet unacquainted with the marked superiority of our goods.

GIBSON'S SUPERIOR BOILED SUGARS

Have gained a high reputation everywhere. FOR EXPORT TRADE.

They are put up in 1-lb., 2-lb., and 5-lb. Bottles. Packed in Casks or in 1-doz. Cases as required, and delivered F.O.B. at any Port in England. These Sweets are absolutely Pure. We specially recommend

LIME FRUIT TABLETS, EVERTON TOFFY, MIXED FRUIT DROPS, COUGH DROPS, RASPBERRY DROPS, LEMON TABLETS.

COPY OF CERTIFICATE OF ANALYSIS OF

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MANUFACTURED BY

Messrs. ROBERT GIBSON & SONS, MANCHESTER, England.

ANALYTICAL LABORATORY,

GRANVILLE H. SHARPE, F.C.S.,
ANALYTICAL AND CONSULTING CHEMIST.

11 & 12 GREAT TOWER STREET, LONDON, E.C.,
27th June, 1892.

CERTIFICATE OF ANALYSIS.

Messrs. R. GIBSON & SONS, Manchester.

DEAR SIR,—In accordance with your request I sent to your London warehouse and secured various samples of Medicated Lozenges for the purpose of analysis. These I have submitted to a careful and exhaustive chemical analysis, and I find that all have been prepared in accordance with the requirements of the British Pharmacopœia, and that they are pure in composition, and free from extraneous matters.—I am, yours obediently,

GRANVILLE H. SHARPE, F.C.S.

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LINSEED, LIQUORICE, AND CHLORODYNE COUGH LOZENGES.

A HANDSOME COUNTER MAHOGANY SHOW CASE

Given to any Chemist buying 1 cwt. of above Lozenges. Price 1/- per lb. net.

GIBSON'S VOCAL LOZENGE

"TOP NOTE PRODUCERS."

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affections. Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknown to those who regularly use these valuable Lozenges. Sold in 1/1½ and 2/9 Boxes.

CHERRY BLOSSOM LOZENGE,

The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver-top Screw-stoppered Bottles.

VOICE AND THROAT LOZENGES, FOR SINGERS AND PUBLIC SPEAKERS.

DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retail at One Penny each.

Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.

Put up in 3-doz., 6-doz., and 1-gross Tins.

[1]

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TO WHOLESALE & EXPORT TRADES.

W. Ransom & Son

(ESTABLISHED HALF A CENTURY),

MANUFACTURING PHARMACEUTICAL CHEMISTS,

Distillers of Essential Oils and Cultivators of Medicinal Plants,

HITCHIN, near LONDON.

SPECIALITIES:

Solid and Liquid Extracts.

Expressed Juices.

Essential Oil of Lavender.

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Scammony Resin. Jalap Resin. Elaterium.

Mercurial Pill and Ointment.

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English Aconite Root.

English Dandelion Root.

All Standardized Preparations of the British Pharmacopœia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1867.

WHOLESALE TRADE ONLY.

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DISTILLERS OF ESSENTIAL OILS,

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EXPRESSED OILS

ALMOND (Ol. Amygd. Dulc.)

PEACH KERNEL (Ol. Amygd. Persic. Dulc.)

Frequently imported as Ol. Amygd. Exot.

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Medicinal Herb Growers, Distillers, Manufacturers of

SOLID & FLUID EXTRACTS, JUICES, &c.

London Agents—STAFFORD ALLEN & SONS.

GOLD MEDAL
JAMAICA EXHIBITION.A PURE AND PERFECT ARTICLE FOR
Teeth, Gums, and Breath.

Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The **POPULAR DENTIFRICE**, which Sells at Sight,
Handsomely put up in Show-cases, as here shown. Printed
in Twelve Colours. An ornament to any window.
Price 7/6 per dozen, of all Wholesale Houses.



The **COURT CIRCULAR** says:—"Puriline" emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

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The Countess of ROSSLYN writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, 422 Clapham Road, LONDON, S.W.
Proprietor of "Bunter's Nervine," "Dentine,"
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SPECIAL FOR EXPORT.**Heinrich Haensel's****TERPENELESS** Essential Oil of **LEMON**
30 times the strength of ordinary oil.**TERPENELESS** Essential Oil of **ORANGE**
30 times the strength of ordinary oil.**TERPENELESS** Essential Oil of **CARAWAY**
 $2\frac{1}{2}$ times the strength of ordinary oil.**TERPENELESS** Essential Oil of **PEPPERMINT**
2 times the strength of ordinary oil.**TERPENELESS** Essential Oil of **ANGELICA**
30 times the strength of ordinary oil.**TERPENELESS** Essential Oil of **JUNIPER BERRIES**
20 times the strength of ordinary oil.

The above Essential Oils are *absolutely free from the coarse objectionable Terpenes.*

N.B.—The *Terpenes*, which are sold at very low prices, being *by-products*, are hydrocarbons, which have been arranged in different groups, but which all possess certain peculiarities and properties in common. They are *insoluble* in dilute alcohol, possess a very marked tendency to absorb oxygen from the air, have strongly refractive properties, and a lower specific gravity than the Essential Oils from which they are obtained, and do not possess any characteristic flavour. The latter, as well as the odour, is very much alike in different *Terpenes*. As the *Terpenes* are insoluble in dilute alcohol, the *solubility* of an essential oil will be all the greater the smaller the quantity of *Terpenes* it contains, and the tendency to absorb oxygen and resinify will diminish in the same proportion.

As the real bouquet of the Essential Oil is presented in its greatest purity and delicacy *after the complete removal of the Terpenes*, an improvement is thereby also effected in the character of the products into the manufacture of which they enter.

SOLUBLE ESSENCES

Of double, triple, quadruple, &c., strength can at once be made by simply dissolving the Terpeneless Oils in dilute alcohol.

WEAK ALCOHOLIC SOLUBLE TINCTURES
of **LEMON** or **ORANGE**,

Made from the peel in the ordinary way, can be fortified, and aroma and taste considerably *improved*, by simply adding a little of Haensel's Terpeneless Non-clouding Oils.

LEMONADE, SYRUPS, and CORDIALS, &c.

Are made of a *much stronger* and infinitely *purer* lemon flavour and taste with the Terpeneless Oil than is possible with the ordinary oil, owing to the *increased solubility*, great strength, and refined aroma of the Terpeneless Oil, which will never become turpentiney.

The Terpeneless Essential Oils were first introduced in 1878 by the Inventor, HEINRICH HAENSEL, PIRNA-ON-THE-ELBE. Their excellence is now recognised throughout the civilised world by those who are accustomed to buy and employ the *best* article in the market.

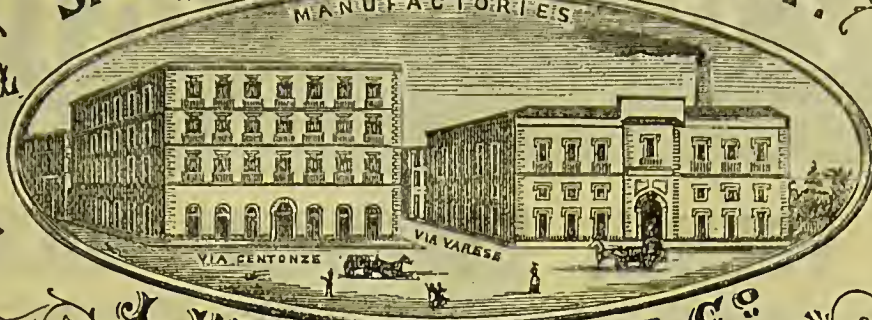
CAUTION.—Beware of adulterated Essential Oils and imperfect imitations. The genuine Terpeneless Oils are sold in sealed bottles of 1 oz., 4 oz., and 1 lb. each, which bear the Registered Trade Mark and Seal of the Inventor, "HEINRICH HAENSEL, Pirna-on-the-Elbe."

Full particulars and list of the other Terpeneless Concentrated Oils on application to

WILLIAM POPPELREUTER,
54 PORTLAND ST., MANCHESTER,
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LEMON.
BERGAMOT.

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ORANGE.
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PRIZE
MEDALS,
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J. W. DRYSDALE & CO.
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SPECIALITY—ESSENTIAL OILS OF LEMON, BERGAMOT, AND ORANGE.

One Quality only. Prepared from November-cut Fruit, and guaranteed Absolutely Pure.

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SOZIO AND ANDRIOLI,

ESTABLISHED A.D. 1757.
GRASSE (FRANCE)

FRENCH ESSENTIAL OILS:

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme,
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FLOWER + POMMADES

AT THE HIGHEST POSSIBLE SATURATION.

Rose Water, Orange-flower Water, Elder-flower Water.

CONCRETE ESSENTIAL OILS FROM FLOWERS,
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OUR WELL KNOWN AND VERY SUPERIOR COMPOSITIONS
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BATH & FLESH GLOVES, STRAPS, PADS, &c.

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62 NEW BOND STREET, LONDON, W.

PERFECTLY PURE.

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TINCTURE SPIRIT

60 O.P. 19/3, 56 O.P. 18/8.



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AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE ORANGE WINE.

PURE GINGER WINE.

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SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

Per doz. 42/- Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. 42/- Per doz.

S. V. METH.

JONES & COMPANY,
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LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in
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REDUCTIONS TO LARGE BUYERS.
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PERFECTLY PURE.

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60 O.P. 19/3. 56 O.P. 18/8.

PURE ORANGE WINE.



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WORLD-RENOWNED

HAIR-PRODUCER & RESTORERIs the Best Dressing Specially Prepared and
Perfumed for Toilet Use.**“HARLENE”**

PRODUCES

**LUXURIANT HAIR,
WHISKERS & MOUSTACHES**PREVENTS THE HAIR FALLING
OFF AND TURNING GREY.

THE WORLD-RENOWNED

REMEDY FOR BALDNESS*For Curing Weak and Thin Eyelashes, Preserving, Strengthening, and
Rendering the Hair Beautifully Soft.*

For Removing Scurf, Dandruff, &c., also for Restoring Grey Hair to its Original Colour.

IT IS WITHOUT A RIVAL.*Physicians and Analysts pronounce it to be devoid of any metallic or other injurious ingredients.*

1/-, 2/6, and 5/6 per Bottle, from Chemists, Hair Dressers, and Perfumers all over the world.

EDWARDS' 'HARLENE'

95 High Holborn, LONDON, W.C.

H. P. TRUEFITT, LIMITED,

WHOLESALE & EXPORT PERFUMERS, AND MANUFACTURERS OF SPECIALITIES FOR THE HAIR,

13 & 14 OLD BOND STREET to 20 & 21 BURLINGTON ARCADE, LONDON.

BRILLANTINE.

Sizes	2/6	3/6	5/	10/6	21/
Doz.	20/	28/	40/	84/	168/

HAIR WASHES.

- EUCHRISMA** combines in one clear fluid every valuable component, both of a Hair Grease and Wash.. sizes 3/6 5/ 10/6 21/ per doz. 28/ 40/ 84/ 168/
- QUININE AND ARNICA HAIR WASH** contains in these two ingredients the elements of regeneration necessary in the great majority of cases from loss of Hair sizes 3/6 5/ 10/6 per doz. 28/ 40/ 84/
- FLORAL EXTRACT**: a delightful preparation for cleansing the Hair and imparting a beautiful softness and fragrance. sizes 3/6 5/ 10/6 per doz. 28/ 40/ 84/
- MELLIFLORA**: a combination of Pure Honey with Extract of Flowers; is strongly recommended as a choice Dressing for the Hair sizes 2/6 3/6 5/ 10/6 per doz. 20/ 28/ 40/ 84/
- CAROMA**: a natural vegetable product uniting the stimulating properties of Petroleum..... sizes 3/6 7/ 14/ per doz. 28/ 56/ 112/
- HUILEME**: a *recherché* Hair Dressing, having the advantage of rendering the skin singularly soft, and thus preventing the harsh appearance presented by hair grown through a thickened cuticle. sizes 2/6 3/6 5/ 10/6 per doz. 20/ 28/ 40/ 84/
- EGG JULEP**. This simple preparation of the Yolk of Egg is far superior to the spirituous tinctures generally sold under the title of Hair Washes sizes 2/6 2/ 4/ per doz. 20/ 16/ 32/
- CONCENTRATED EGG JULEP**, in Toilet Jars. Will keep good any length of time and in any climate. sizes 2/6 5/ 10/6 per doz. 20/ 40/ 84/

LOTIONS.

- THE STIMULATING LOTION**. This Lotion is recommended by Mr. Truefitt in cases where the Hair has fallen off after illness, &c. sizes 5/ 10/6 per doz. 40/ 84/
- THE ASTRINGENT AND TONIC LOTION**. sizes 5/ 10/6; per doz. 40/ 84/

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- MEDICATED MEXICAN BALM**. sizes 2/6 3/ 5/6 7/ 10/6 21/ per doz. 20/ 24/ 44/ 56/ 84/ 168/
- THE NONPAREIL BALSAM**. sizes 3/6 6/ 10/6 21/ per doz. 28/ 48/ 84/ 168/
- THE HYGIENIQUE POMADE**. sizes 1/6 2/6 3/6 4/6 6/ per doz. 12/ 20/ 28/ 36/ 48/
- TRUEFITT'S SHILLING POMADE**..... per doz. 8/
- QUININE AND ARNICA POMADE**. sizes 3/6 5/ per doz. 28/ 40/
- ARNICA POMADE**..... sizes 3/6 5/ per doz. 28/ 40/

OILS.

- H. P. TRUEFITT'S PURE VIOLET OIL**, as imported from Grasse sizes 3/6 6/ 10/6 21/ per doz. 28/ 48/ 84/ 168/ net.
- PURE LIME JUICE AND ALMOND OIL**, imported by H. P. T. each West Indian Mail to ensure freshness. sizes 2/6 5/ 10/6 21/ per doz. 20/ 40/ 84/ 168/

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- FOR THE HANDKERCHIEF, BOUQUETS, &c.**, a choice selection of the best and newest..... sizes 2/6 3/6 7/ 10/6 21/ per doz. 20/ 28/ 56/ 84/ 168/
- PERFUMED SALTS**: a speciality, Lavender, Lilac, Rose, Carnation and Violette..... sizes 2/6 3/6 10/6 per doz. 20/ 28/ 84/

To facilitate the despatch of small orders, H. P. T. has made Special Terms with the following Wholesale Houses, of whom all the Specialities in this List can be purchased at the same prices as if obtained direct from H. P. TRUEFITT.

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CALCUTTA—Messrs. Bathgate & Co.
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H. P. TRUEFITT (Lim.) supply elegant Show Plates and Counter Bills upon application at 20 & 21 Burlington Arcade.

CREAMS FOR THE HAIR.

- SCURF CREAM** at once removes all Scurf and other impurities, and allays irritation..... size 2/6 per doz. 20/
- FLORAL CREAM**, perfumed with Rose of Sharon, Vanilla, Jasmine, Rose, White Rose or Cambridge Ess. sizes 2/6 3/6 4/6 6/ per doz. 20/ 28/ 36/ 48/

EAUX DE TOILETTE.

- EAUX DE TOILETTE** (parfum Violette on Verveine). size 3/6; per doz. 28/
- EAU DE LIMONS**, more popularly known as "Bath Perfume." per pint bottle 3/8 Imperial quart 7/ per doz. " 28/ per doz. " 56/

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- CREME D'AMANDES AMERES**..... sizes 1/8 2/6 4/ per doz. 12/ 20/ 32/
- PURE NAPLES SOAP**..... sizes 1/8 2/6 4/ per doz. 12/ 20/ 32/
- EUXURON**, for shaving without brush, soap, or water. size 1/6; per doz. 12/; per gross 120/
- NEAPOLITAINE**, a soothing lotion to be used after shaving. sizes 2/6 5/; per doz. 20/ 40/

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- CAMPHORATED CHALK**, carefully prepared.. 1/ 8/
- DENTREFINE—A HIGHLY EFFICIENT AND DELICIOUS DENTIFRICE**..... 2/8 20/
- PERLINE** 2/ 16/
- Ditto in glass bottles, screw tops 2/6 20/

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- LA TEINTURE BLONDE**..... sizes 5/ 10/6 21/ per doz. 40/ 84/ 168/
- THE TINCTURA DYE**, Brown or Black. sizes 5/ 10/6 21/ per doz. 40/ 84/ 168/
- EAU FLAVIA**: a few applications will restore Grey or Faded Hair to a beautiful natural light auburn, and a darker shade by repetition size 7/6; per doz. 60/
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- EAU CENDREE**, To restore Blonde or Flaxen Hair which has turned Grey to its original colour sizes 5/ 10/6 per doz. 40/ 84/
- SAURIA**: a vegetable preparation for dyeing the hair Blonde only. size 6/; per doz. 48/
- GOLDEN FLUID** sizes 10/6 21/ per doz. 84/ 168/

COSMÉTIQUES, &c.

- ALMONDINE** size 2/6; per doz. 20/
- CREME DE MER**, pour fixer les Bandeaux et lesses les Cheveux. sizes 1/ 2/ per doz. 8/ 16/
- SARDINIAN POMADE**, all colours..... size 2/; per doz. 16/
- THE NONPAREIL COSMETIQUE**..... sizes 2/ 3/6 per doz. 16/ 28/
- COSMETIQUE BRILLANT**..... sizes 1/ 2/ per doz. 8/ 16/
- ASIATIC DEPILATORY** size 2/6; per doz. 20/
- ROSE GOLD CREAM** sizes 1/ 1/6 2/6 per doz. 8/ 12/ 20/
- LIP SALVE** size 1/; per doz. 8/
- TRUEFITT'S TONIC TOOTH BRUSH**. (By Royal Letters Patent) per doz. 8/
- H. P. TRUEFITT'S HAIR SOAP** Retail 2/6 per box.

MEDAL FOR PURITY, SANITARY INSTITUTE, 1889.

6 PRIZE MEDALS AWARDED FOR PURITY OF SOAPS.

COOK'S PURE TOILET SOAPS

These Soaps are perfectly pure, and will be found in use pleasant to the most delicate and sensitive skin, great care being used in the selection of scents to avoid anything likely to cause irritation.

NO INJURIOUS COLOURING MATTER USED.

SPECIALITIES:—"SAVON DE LUXE"
THE MOST LUXURIOUS SOAP MADE.

Thousands of large samples of this Soap have been distributed, and have met with universal approval. Being made from the purest materials obtainable, it is not only a luxury, but it is economical in use.

COOK'S SUPERFATTED SOAP. "RIVIERA" BRAND.

Specially prepared for Delicate and Sensitive Skins.

COOK'S "HYGIENIC" TOOTH SOAP AND "RIVIERA" SHAVING STICK.

COOK'S ANTISEPTIC SOAP

(THOMSON'S PATENT).

A most carefully conducted set of experiments by eminent members of the Medical Profession has established the fact that this Soap is of the highest value in the treatment of ECZEMA, RINGWORM, SCABIES, FAVUS, and other Diseases of the Skin.

Messrs. E. COOK & CO. have received from Medical Men numerous communications testifying to the success that has attended the use of this Soap, most of which cannot be published; but Messrs. E. C. & Co. have the permission of many of the writers to show the originals to members of the Medical Profession.

CAN BE OBTAINED THROUGH

MESSRS. S. MAW, SON & THOMPSON, OF LONDON,

OR DIRECT FROM THE MAKERS.

Price, in 3-Tablet Boxes, per doz., 12/, Selling Price, 1/6; in $\frac{1}{4}$ -gross Boxes, 10/6 per box.

Messrs. E. COOK & CO. will, with pleasure, send sample, free of charge, to Medical Men on application.

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EDWARD COOK & CO., LONDON,

MAKERS OF

COOK'S Celebrated GOLD MEDAL PRIMROSE, MOTTLED, and SOFT SOAPS; also of COOK'S LIGHTNING CLEANSER, and COOK'S HIGH-CLASS TOILET SOAPS.

SPECIALITY:—"SAVON DE LUXE."

GOLD MEDAL, PARIS EXHIBITION, 1889.

THE

N.B.

Special Quotations
for Export.

SOAP

N.B.

Special Quotations
for Export.

FOR

CHEMISTS

The unprecedented Success that has attended the introduction
of

MARGERISON'S TOILET SOAPS

and that without any advertising, is a testimony to their high-
class quality and the good value to the consumer.

THEY ALSO LEAVE A GOOD PROFIT TO RETAILERS.

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EVANS, SONS & CO.,
LIVERPOOL.

EVANS, LESCHER & WEBB,
LONDON.

EVANS AND SONS, LIMITED,
MONTREAL, CANADA.

FRED LEWIS' WHOLESALE PRICE LIST.

ELECTRIC OIL, for the Hair. (2/6), 20/-; (3/6), 27/- doz.

TROTTER OIL. (2-oz.), 4/-; (3-oz.), 6/-; (4-oz.), 8/-; (6-oz.), 12/- doz.

Made from sheep's feet; a positive hair producer.

DEPILATORY POWDER. (3/6), 27/- doz.

WATERS OF EBLANA. (1/-), 8/-; (2/-), 16/- doz.

HAIR COLOR RESTORER (Registered), free from Sediment. (2/6), 20/- doz.

Send for Price List and Terms.

Trade only supplied.

Goods specially made to suit all climates.

FRED LEWIS & CO., LIMITED, DUBLIN.

Registered Office—6 FLEET STREET. Steam Works—ASTON'S LANE. Stores—BEDFORD ROW.

Special Terms to Shippers.

Goods for Africa a Specialité.

CAUTION.**A. S. LLOYD'S EUXESIS,****FOR****SHAVING WITHOUT SOAP, WATER, OR BRUSH.**

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground.

31, 32 & 33 Berners St., W., and 91, 93 & 95 City Road, E.C., LONDON.

WHITE AND SOUND TEETH.**JEWSBURY & BROWN'S****ORIENTAL TOOTH PASTE.**

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public. It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN, Chemists, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

GREENSILL'S

ORIGINAL

MONA BOUQUET.

Wholesale and Shipping Terms sent on application to the Sole Manufacturers—

GREENSILL & SON, DOUGLAS.

ESTABLISHED 1852.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in BLACK INK, and the signature of his Widow, AIMÉE LLOYD, in RED INK. Refuse all other.

Manufacturer: **AIMÉE LLOYD**

(WIDOW OF A. S. LLOYD, FORMERLY OF 27 GLASSHOUSE STREET),

3 SPUR STREET, LEICESTER SQUARE, LONDON.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).



10-lb.

5-lb.

1-lb.

"LUCILLINE."

(REGISTERED.)

Guaranteed
Chemically Pure
and suitable
for all Climates.



25-lb.

"Lucilline" is recognised by the leading Chemists throughout the kingdom as the best Petroleum Jelly in the Market. The demand for it has increased enormously in consequence.

PROOF OF PURITY.
CHAS. R. C. TICHBORNE, Esq., LL.D., L.R.C.S.I., L.A.H.I., F.I.O., &c., reports as follows, December 15, 1890 :—
"I have examined a sample of 'Lucilline,' introduced by Messrs. Hatrick & Co. (Limited). I find that it is an emollient jelly of a soft and uniform consistency. It is non-irritant and free from Acid and Alkalies. IT IS PERFECTLY HARMLESS.
"Water boiled with the 'Lucilline' for some considerable time gave neither an acid nor an alkaline reaction, and this water on evaporation gave no appreciable residue. It was also without action upon potassium permanganate, AN IMPORTANT TEST, as showing its freedom from oxidisable products.
" 'Lucilline' fulfils all the requirements of a good excipient for medicinal purposes."

In 1, 5, and 10 lb. tins; 25 and 50 lb. pails;
1, 2, and 3 cwt. barrels. OF ALL WHOLESALE HOUSES.

"Lucilline" is non-granular and homogeneous—it is not a mixture of hard paraffin and heavy petroleum oil.

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All Colours
FAST,
BRIGHT,
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ARE SO SIMPLE,

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Everything comes out perfect

IF YOU USE

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31 SNOW HILL, LONDON, E.C.





QUALITY UNSURPASSED, CONSISTENCY SUITABLE FOR ALL CLIMATES.

Report by Dr. S. Rideal, F.C.S., F.I.C., F.G.S.

Chemical Laboratory, St. George's Hospital : October 14th, 1893.

"The two samples of Yellow Petroleum Jelly which my assistant took from your works on October 10th are quite up to the standard of excellence of the samples I examined in May 1892, and I am glad to be able to report that your make of Yellow Petroleum Jelly remains of such uniform character. The colour is a distinct improvement upon that of last year."

(Signed) SAMUEL RIDEAL, D.Sc.Lond., F.I.C., F.O.S.

Tins of all sizes, from 1 to 10 lbs. ; Iron or Wood Kegs, $\frac{1}{4}$, $\frac{1}{2}$, and 1 cwt. ; Barrels about 3 cwt., &c.

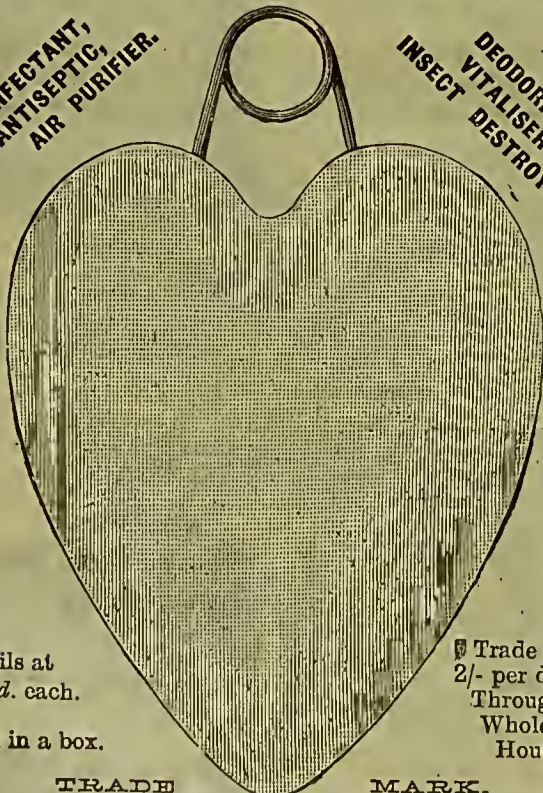
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62



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18,000,000 Boxes.

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The BEST Polishing Paste.

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Pure Lard ... /11 lb.
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Mutton Suet ... /9 ,,
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TOILET AND MEDICATED SOAPS OF ALL KINDS.

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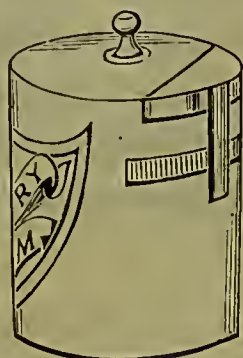
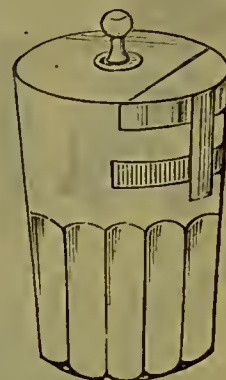
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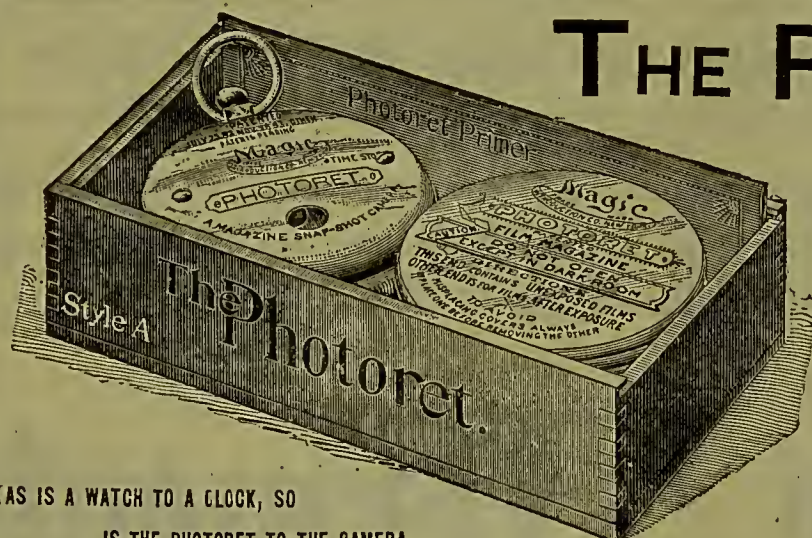
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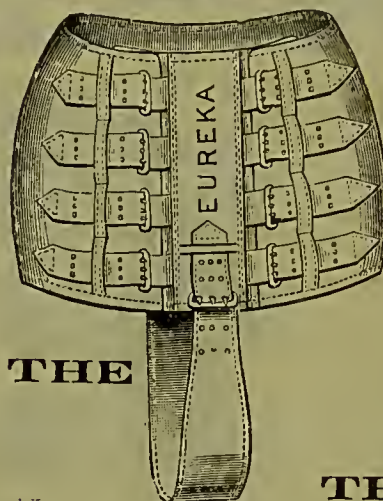
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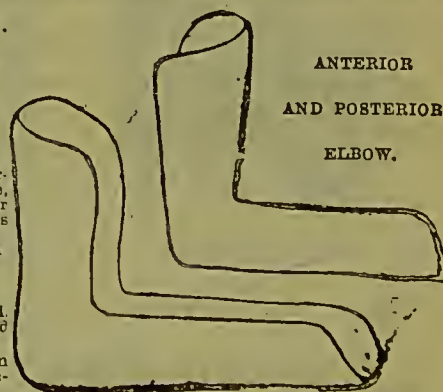
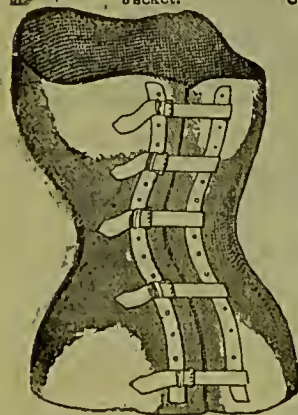
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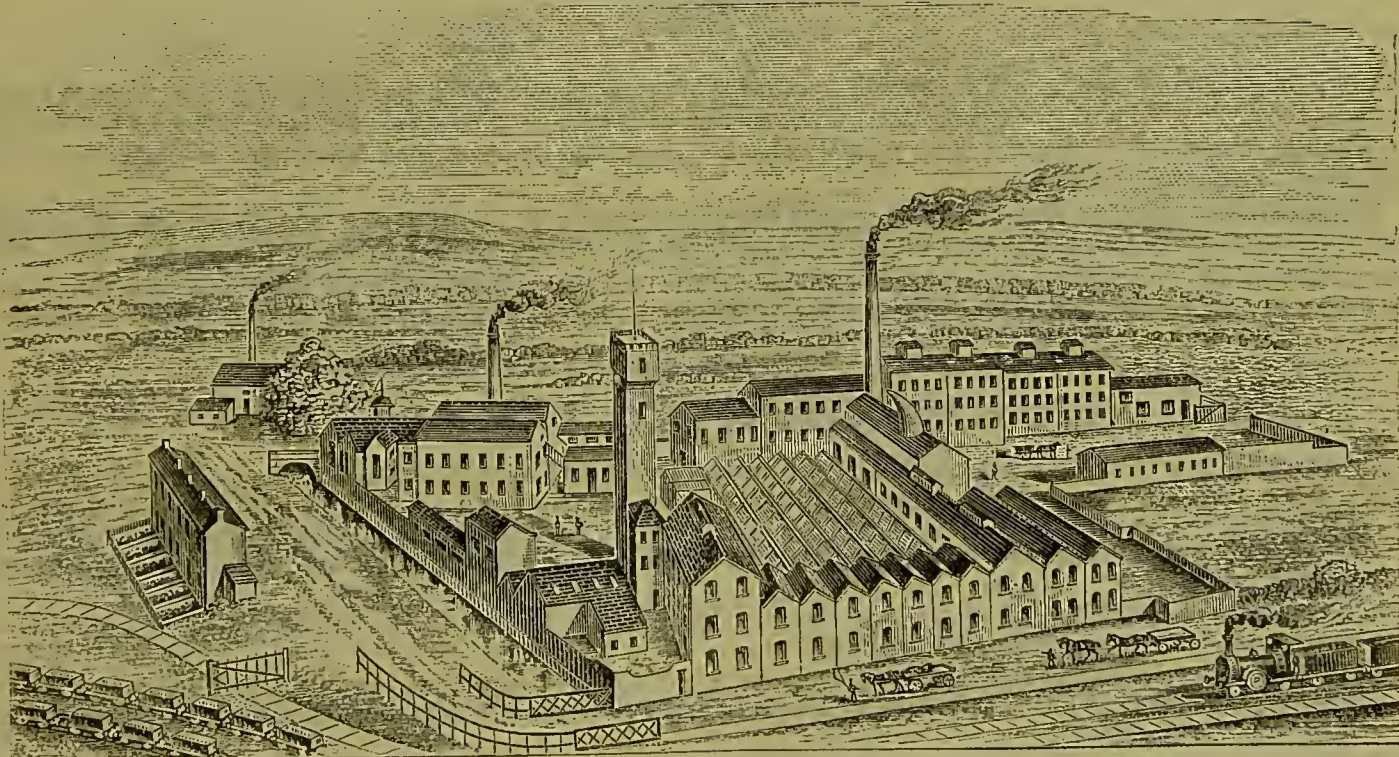
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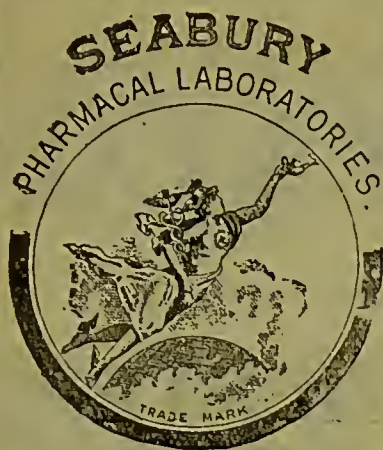
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11. " Subnit. gr. 2 1/-		8/6	2/6
12. " " gr. 4 1/-		8/6	3/-
13. " " gr. 8 1/3		10/6	5/-
14. " " c. Pepsin 1/-		8/6	3/-
137. Butyl Chloral Hydras gr. 5 .. 1/6		12/6	5/6
15. Caffein Pur. gr. 2 1/2 1/-		8/6	2/6
16. " Citras. gr. 2 1/2 1/-		8/6	2/6
17. " Hydrobrom. gr. 1 1/-		8/6	2/6
181. " Hydrobrom. gr. 2 1/2 1/-		8/6	2/6
18. " Valerianas gr. 2 1/2 1/-		9/6	4/-
19. Calci Sulphid. gr. 1/2 1/-		8/6	2/6
20. " " gr. 1 1/-		8/6	2/6
21. " " gr. 1 1/-		8/6	2/6
22. " Lactophosph. gr. 2 1/2 .. 1/-		8/6	2/6
23. Campbora gr. 1 1/-		8/6	2/6
182. " gr. 2 1/-		8/6	2/6
160. Campbor. Co. Tinct. equiv. to B.P. Tinct. m 10 1/-		8/6	2/6
159. Cannabon (O. S. & Co.) gr. 1 .. 1/-		8/6	3/-
158. Carbo Animalis gr. 2 1/-		8/6	2/-
145. Cascara Sagrada Co. 1/-		8/6	2/6
24. Cascara Ext. Pulv. gr. 1 1/-		8/6	2/6
25. " gr. 2 1/-		8/6	2/9
163. Cascara, Nux Vomica, and Belladonna 1/-		8/6	2/6
26. Cascara Ext. c. Bismuth Subnit. aa gr. 1 1/-		8/6	2/6
27. Cascara Ext. gr. 1 c. Colocynth gr. 1/2 .. 1/-		8/6	2/6
28. " " c. Eucalyptin aa gr. 1 .. 1/-		8/6	2/6
29. " " c. Hyd. Subchlor. aa gr. 1 .. 1/-		8/6	2/6
30. " " c. Iridin aa gr. 1 1/-		8/6	2/6
31. " " c. Pepsin 1/-		8/6	3/-

No.	Retail each.	Per doz. tubes each oontg. 22 or 24 palats.	In botts. each oontg. 1 gross. At per gross.
165. Cathartic Comp. 1/-		8/6	2/6
32. Ceril Oxalas gr. 2 1/-		8/6	2/6
33. Cocain. Hydrochlor. gr. 1/2 .. 2/-		18/-	8/3
34. Codeia gr. 1/2 1/6		12/6	5/6
35. " gr. 1/2 2/6		20/-	9/3
36. Colocynth. Co. P. Ext. gr. 2 .. 1/-		8/6	2/6
164. Digestive 1/-		8/6	2/6
166. Digitalis Tinct. equiv. to B.P. Tinct. m 10 1/-		8/6	2/6
37. Digitalis c. Ferri Sulph. 1/-		8/6	2/6
38. Digitalis c. Hyd. Subchlor. et Scilla 1/-		8/6	2/6
Dover's Powder (see Pulv. Ipecac. Co.).			
168. Emmenagogue 1/3		10/6	4/6
167. Ergotin. Comp. 1/3		10/6	4/6
39. Ergotinum B.P. gr. 1 1/3		10/6	4/-
40. " gr. 2 2/-		18/-	5/-
41. Eucalyptin gr. 1 1/-		8/6	2/6
183. " gr. 2 1/3		10/6	3/6
42. " gr. 1 c. Colocynth gr. 1/2 .. 1/-		8/6	2/6
162. " et Cascara Co. 1/-		8/6	2/6
43. Eucalyptin c. Hyd. Subchlor. aa gr. 1 .. 1/-		8/6	2/6
46. " c. Podophyllin 1/-		8/6	2/6
48. Ferri et Ammon. Cit. gr. 2 .. 1/-		8/6	2/6
49. " gr. 4 1/-		8/6	3/9
50. " Arsenias P.B. gr. 1/2 .. 1/-		8/6	2/6
51. " Lactas gr. 1 1/-		8/6	2/6
52. " Peptonas gr. 1 1/-		8/6	2/6
53. " Phosphas B.P. gr. 1 1/-		8/6	2/6
54. " Phosph. Co. (Parrish's Food) 1/-		8/6	3/6
55. " et Potass Tart. gr. 2 .. 1/-		8/6	2/6
56. " " gr. 4 1/-		8/6	3/6
57. " et Quin. Cit. gr. 2 1/-		8/6	2/6
58. " gr. 4 1/-		8/6	3/6
169. " Quinine et Strych. Cit. gr. 2 1/-		8/6	2/6
59. " Sulphas Exsicc. gr. 1 1/-		8/6	2/6
184. " gr. 2 1/-		8/6	2/6
60. Ferri Sulph. Ex. c. Aloes Barb. 1/-		8/6	2/6
61. " Sulph. Ex. c. Aloes Barb. et Nuos Vom. 1/-		8/6	3/-
62. " Valerianas gr 1 1/3		10/6	4/6
63. Ferrum Redactum gr. 1 1/-		8/6	2/-
64. " gr. 2 1/-		8/6	2/3
185. " " gr. 5 1/-		8/6	3/6
65. " " c. Acid Arsenious 1/-		8/6	2/9
66. " Redactum et Ergotine .. 1/3		9/6	4/-
138. Hepatic Comp. 1/-		8/6	3/-
67. Hydrarg. c. Creta gr. 1 1/-		8/6	2/-
68. " gr. 2 1/-		8/6	2/-
69. Hyd. Iodid. Rub. gr. 1/2 1/-		8/6	3/6
70. " Subchlor. gr. 1 1/-		8/6	2/6
71. " gr. 2 1/-		8/6	2/6
186. " gr. 4 1/3		10/6	3/6
72. Hyoscyamine Anomorph. gr. 1/2 .. 1/6		12/6	5/6
73. Iodoform. Pulv. gr. 1 1/6		12/6	5/6

In ordering "PALATINOIDS" the number need only be quoted.



No.		Retail each.	Per doz. tubes each contg. 22 or 24 palats.	In botts. each contg. 1 gross. At per gross.
74.	Ipecac. Pulv. Rad. gr. 1 ..	1/-	8/6	2/6
75.	" " " gr. 1 ..	1/-	8/6	2/6
76.	" " " gr. 1 ..	1/-	8/6	2/6
77.	" Co. Pulv. B.P. (Dover's Powder) gr. 2 ..	1/-	8/6	3/-
78.	Ipecac. Co. Pulv. B.P. gr. 4 ..	1/3	9/6	4/-
79.	Laxative ..	1/-	9/6	4/-
80.	Manganese Diox. gr. 2 ..	1/-	8/6	3/-
81.	Menthol gr. 1 ..	1/3	10/6	4/6
82.	Morphine Hydrochlor. gr. 1 ..	1/-	8/6	3/-
83.	" " gr. 1 ..	1/-	8/6	3/-
84.	" " gr. 1 ..	1/-	8/6	3/6
85.	Neuralgic Comp. ..	1/-	8/6	2/6
86.	Nux Vomica Tinct. equiv. to B.P. Tinct. m. 5 ..	1/-	8/6	2/6
87.	Nux Vomica Tinct. equiv. to B.P. Tinct. m. 10 ..	1/-	8/6	2/6
88.	Opium Pulv. gr. 1 ..	1/-	8/6	3/-
89.	" " gr. 1 ..	1/-	8/6	3/-
90.	" " gr. 1 ..	1/-	8/6	3/6
91.	Opium gr. 1, c. Hyd. Subchlor. gr. 1 ..	1/-	8/6	3/-
92.	Opium gr. 1, c. Ext. Belladonn. gr. 1 ..	1/-	8/6	3/-
93.	Opium Tinct. equiv. to B.P. Tinct. m. 5 ..	1/-	8/6	2/6
94.	Opium Tinct. equiv. to B.P. Tinct. m. 10 ..	1/-	8/6	2/6
95.	Pectoral Comp. ..	1/-	8/6	2/6
96.	Pepsin. Porci gr. 1 ..	1/-	8/6	2/6
97.	" " gr. 2 ..	1/-	8/6	2/9
98.	Pepsine and Gingerine ..	1/-	8/6	2/9
99.	Phenacetin gr. 2 ..	1/3	10/6	4/6
100.	" " gr. 4 ..	1/6	12/6	5/6
101.	Pilocarpine Mur. gr. 1 ..	1/-	8/6	3/6
102.	Podophyllin gr. 1 ..	1/-	8/6	2/6
103.	" " gr. 1 ..	1/-	8/6	3/6
104.	" " c. Hyd. Subchlor. ..	1/-	8/6	2/6
105.	Potassii Bromid. gr. 2 ..	1/-	8/6	3/6
106.	" " gr. 4 ..	1/-	8/6	3/6

No.		Retail each.	Per doz. tubes each contg. 22 or 24 palats.	In botts. each contg. 1 gross. At per gross.
189.	Potass. Permang. gr. 1 ..	1/-	8/6	2/6
190.	" " gr. 2 ..	1/-	8/6	2/6
107.	Quinine and Gelsemin ..	1/6	12/6	5/6
107a.	Quinine and Gelsemin ..	1/-	8/6	3/6
108.	Quinine Hydrochlor. gr. 1 ..	1/-	8/6	2/-
109.	" " gr. 2 ..	1/-	8/6	2/6
110.	" " gr. 3 ..	1/-	8/6	3/4
111.	" Hydrobrom. gr. 1 ..	1/-	8/6	2/-
112.	" " gr. 2 ..	1/-	8/6	2/6
113.	" " gr. 3 ..	1/-	8/6	3/4
114.	Quin. Sulph. gr. 1 ..	1/-	8/6	1/3
115.	" " gr. 2 ..	1/-	8/6	1/11
116.	" " gr. 3 ..	1/-	8/6	2/9
117.	" Salicylas gr. 1 ..	1/-	8/6	2/-
118.	" " gr. 2 ..	1/-	8/6	2/6
119.	Quin. Valerianas gr. 1 ..	1/-	8/6	2/6
121.	Rhei Co. Pulv. pro Pil. (equiv. to 5 gr. pill) ..	1/-	8/6	2/6
122.	" Pulv. Rad. gr. 1 ..	1/-	8/6	2/6
123.	" " gr. 4 ..	1/-	8/6	3/-
124.	" " c. Hyd. Subch. ..	1/-	8/6	2/6
142.	Rheumatic Comp. ..	1/-	8/6	2/6
125.	Salol gr. 2 1/2 ..	1/-	8/6	3/-
179.	S n'al Co. ..	1/-	9/6	4/-
126.	S n'min gr. 1 ..	1/-	8/6	3/-
128.	" gr 2 ..	1/-	8/6	3/6
127.	Santonin gr. 1, c. Hyd. Subohlor. gr. 1 ..	1/-	8/3	3/-
	Soda-mint (see Antacid) ..	1/-	8/6	2/6
128.	Sodii Arsenias Anhydrous gr. 1 ..	1/-	8/6	2/6
130.	" Bicarb. gr. 4 ..	1/-	8/6	2/-
178.	Stomachio ..	1/-	8/6	2/-
132.	Sulphonal gr. 4 ..	1/6	12/6	5/6
180.	Sulphur Comp. ..	1/-	8/6	1/6
133.	Thymol gr. 1 ..	1/-	8/6	3/-
144.	Tonic Comp. ..	1/-	8/6	2/6
134.	Zinci Oxid. gr. 1 ..	1/-	8/6	2/6
135.	" Valerianas gr. 1 ..	1/-	8/6	3/-

In ordering "PALATINOID" the number need only be quoted.

Bipalatinoid.

"BIPALATINOID."

(By Royal Letters Patent.)

Discount, 10 per cent. from list prices.

"A perfect Bland's Pill this."—*The Chemist and Druggist.*

"LANCET," JAN. 2, 1892.

"While we recognise in 'Palatinoids' one of the best methods for administration of unstable and nauseous drugs that have hitherto been devised, yet we think that the 'Bipalatinoid,' recently introduced by Messrs. Oppenheimer & Co., is entitled to even greater praise by reason of the ingenuity and skill which it displays. . . . Practitioners have long recognised the difficulty of administering many of the valuable combinations of the proto-iron salts in a satisfactory and pure condition. The Pharmacopoeia allows, it appears, no less than 53 per cent. of impurity in ferrous phosphate, and 90 per cent. in ferrous arseniate. Any method therefore which aims at securing greater accuracy of dosage, and accordingly a full and more certain therapeutic effect from medicaments such as those mentioned, will, as a matter of course, meet with hearty and very general approval. Their employment places the administration of exceedingly unstable compounds—like ferrous carbonate, phosphate, and arseniate—upon a sounder and more scientific basis. . . .

There is no need to offer any interpretation of the results—they are so palpably satisfactory."

"BRITISH MEDICAL."

"The 'Bipalatinoid' is an excellent method for the administration of ferrous carbonate in a pure unoxidised state. The air-tight covering entirely protects the contents from atmospheric influence, and the shape renders deglutition easy. We regard these 'Bipalatinoids' as a very ingenious and marked progress in elegant and efficient pharmacy."

"INDIAN MEDICAL RECORD."

"The acme of pharmaceutical perfection at the present day."

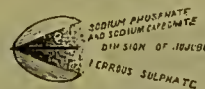
"MEDICO-CHIRURGICAL JOURNAL."

"Prince of all."

No.		Per doz. tubes.	Per doz. gross.
500.	Ferrous Carbonate, gr. 4 ..	2/6	30/-
501.	" " gr. 8 ..	9/6	42/-
502.	Ferrous Carbonate c. Arseniate ..	9/6	42/-
503.	" " c. Aloes Barb. ..	9/6	42/-
504.	" " c. Aloes Barb. et Quinine ..	9/6	42/-
505.	Ferrous Carbonate c. Nux Vomica ..	9/6	42/-
511.	Ferrous Carbonate c. Arseniate and Nux Vomica ..	9/6	42/-

No.		Per doz. tubes.	Per doz. gross.
506.	Ferrous Carb. c. Nux Vomica et Quinine ..	9/6	42/-
507.	Ferrous Phosphate ..	9/6	42/-
512.	Ferrous Carb. c. Ext. Cascara Sagrada ..	9/6	42/-
508.	Ferrous Phosphate c. Nux Vomica ..	9/6	42/-
509.	Ferrous Phos. c. Nux Vomica and Quinine ..	9/6	42/-
510.	Ferri Hypophosph. Co. ..	9/6	42/-
513.	Ferrous Carbonate c. Ext. Casc. Sagr. ct Nux Vomica ..	9/6	42/-
514.	Ferrous Carbonate c. Aloes Barb. ..	9/6	42/-

Bipalatinoid.



Ferrous Phosphate.

BI-PALATINOID



BI-PALATINOID



BI-PALATINOID



BI-PALATINOID



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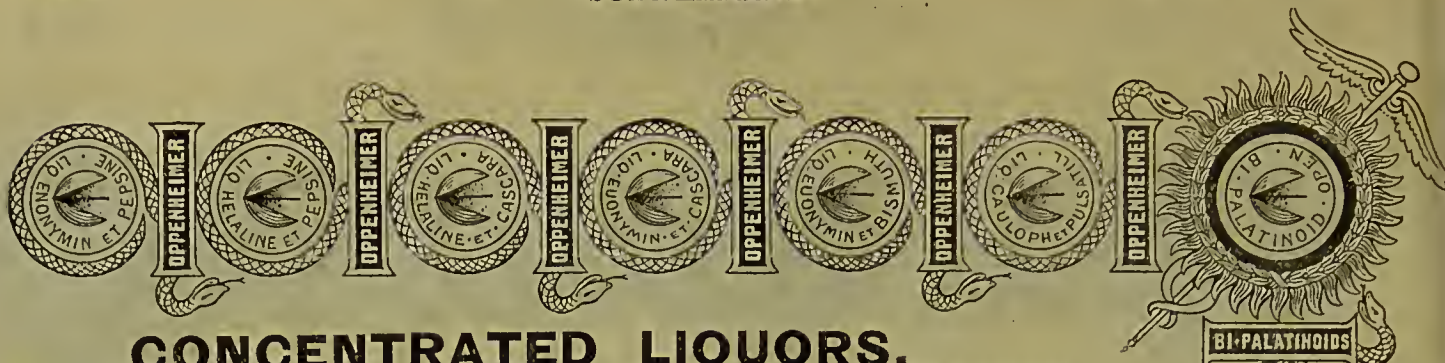


BI-PALATINOID



BI-PALATINOID





CONCENTRATED LIQUORS.

IN ORDERING OUR LIQUORS, AS A PRECAUTION PLEASE SPECIFY "OPPENHEIMER."



Discounts: ordinary requirements, net. 56 lbs. at one time, 5 per cent.

Liq. Bismuthi Co.	6/- lb.	Per lb.
<i>Uses.</i> —Antacid, sedative, stomachic; for irritable dyspepsia, pyrosis, and stomachic irritation.		
Liq. Cauloph. et Pulsatillæ Co.	4 oz. 3/6 ea.	
" " " " " "	8 oz. 6/- ea.	
" " " " " "	16 oz. 11/- ea.	
<i>Uses.</i> —A valuable uterine sedative and tonic; specific in all affections of the utero-genital organs.		
	Per lb.	
Liq. Santal. Co.	10/6	
<i>For gonorrhœa, gleet, leucorrhœa, dysmenorrhœa, and all urinary affections.</i>		
Liq. Ergotæ	6/6	
<i>Uses.</i> —In post-partum hæmorrhage, hæmatemesis, hæmoptysis, &c.		
Liq. Euonymin et Bismuthi Co.	10/6	
<i>Hepatic stimulant and stomachic.</i>		
Liq. Euonymin et Cascaræ Sagradæ Co.	10/6	
<i>Hepatic stimulant and laxative.</i>		
Liq. Euonymin et Culyverine Co.	10/6	
<i>A powerful hepatic stimulant.</i>		
Liq. Euonymin et Iridin Co.	10/6	
<i>Hepatic stimulant and alterative.</i>		
Liq. Euonymin et Pepsinæ Co.	10/6	
<i>Hepatic stimulant and proteid digestive.</i>		
Liq. Kuonymin et Pepsinæ c. Bismuthi Co.	10/6	
<i>Hepatic stimulant, digestive, and stomachic.</i>		
Liq. Euonymin et Pepsinæ c. Cascara Co.		
<i>Hepatic stimulant, digestive, and laxative.</i>		
Liq. Euonymin et Podophyllin Co.	10/6	
<i>Powerful hepatic stimulant and intestinal irritant.</i>		
Liq. Euonymin et Pulsatillæ Co.	10/6	
<i>Hepatic gastric and nerveine stimulant.</i>		
Liq. Glatrucinæ Co.	10/6	
<i>For gonorrhœa, gleet, and all affections of the urinary organs.</i>		
Liq. Helalin et Culverin Co.	10/6	
<i>An anti-spasmodic in flatulent and biliary colic. Useful in dyspepsia, and a specific in hemorrhoids.</i>		
Liq. Helalin et Pepsinæ Co.	10/6	
<i>A cholagogue stimulant, cathartic, diuretic, and digestive.</i>		
Liq. Helalin et Cascaræ Sagradæ Co.	10/6	
<i>Hepatic stimulant and laxative.</i>		
Liq. Helalin et Bismuthi Co.	10/6	
<i>Hepatic stimulant and stomachic.</i>		
Liq. Lithii et Colchicæ Co.	10/6	
<i>Diuretic, anti-rheumatic.</i>		
Liq. Pepsinæ Acid ("Peptoporcinæ")	8/-	
<i>Digestive, of proteids</i>		
Liq. Pepsinæ et Bismuthi Co.	8/6	
<i>Sedative, stomachic, and digestive.</i>		
Liq. Pepsinæ c. Opio Co.	10/6	
<i>Digestive and sedative.</i>		
Liq. Podophyllin et Pulsatillæ Co.	10/6	
<i>Hepatic intestinal and nerveine stimulant possessing powerful tonic action.</i>		

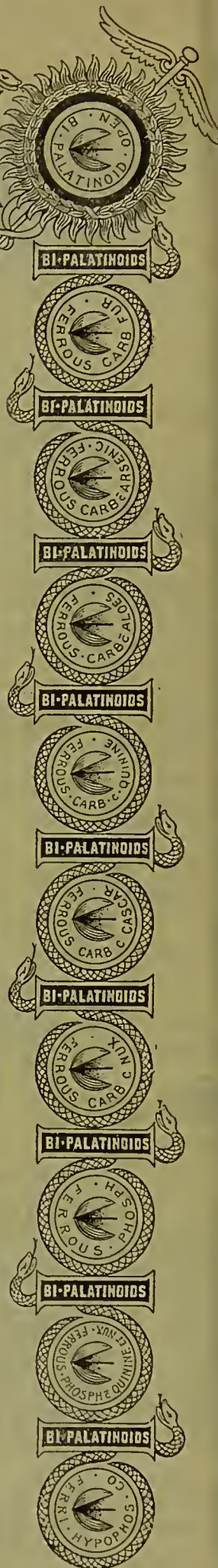
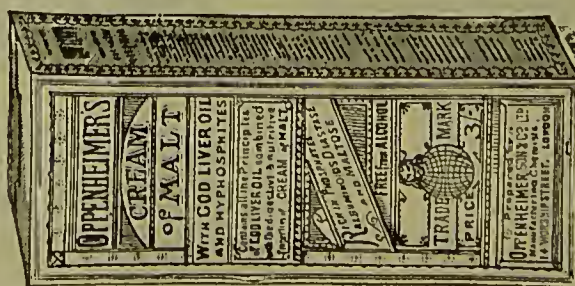
Bottles are Charged Extra for Liquors except in the case of Liq. Caulophyllin et Pulsatillæ Co.

CREAM OF MALT PREPARATIONS.

DISCOUNTS.

Ordinary requirements, small size	26 1/2	per doz.	Ordinary requirements, large size	48	per doz.
Per gross at a time, one kind or assorted	24	"	Per gross at a time, one kind or assorted	45	"

		3/- size per doz.	5/6 size per doz.
Cream of Malt plain	.. ..	27/-	48/-
" c. Coca	.. ..	27/-	48/-
" c. Cod-liver Oil	.. ..	27/-	48/-
" c. Cod-liver Oil and Hypophosphites	.. ..	27/-	48/-
" c. Cod-liver Oil and Terebene	.. ..	27/-	48/-
" c. Dialysed Iron	.. ..	27/-	48/-
" c. Hypophosphites	.. ..	27/-	48/-
" o. Iodides	.. ..	27/-	48/-
" c. Peptonics	.. ..	27/-	48/-
" c. Terebene	.. ..	27/-	48/-



"LANOLINE"

Every Chemist

SHOULD USE

"LANOLINE" AS AN OINTMENT BASE,

AS IT

never turns rancid;

admits of the admixture of any quantity of water;

confers stability and permanence on ointments prepared with it.

UNGVENTUM LANOLINI

is an Ointment

WHICH CONSISTS OF

"LANOLINE" and 30 per cent. of Soft Paraffin B.P.

UNGT. LANOLINI is comparatively inexpensive.

UNGT. LANOLINI is non-sticky.

TOILET "LANOLINE."

A SUPERIOR PREPARATION FOR THE SKIN.

IN TUBES CONVENIENT FOR USE IN

**SUNBURN, CHAFING, CHAPPING, REDNESS, AND
WRINKLING OF THE SKIN.**

"LANOLINE" and its preparations, Soaps, Pomades, &c., can be obtained from

BURROUGHS, WELLCOME & CO.

SNOW HILL BUILDINGS, LONDON, E.C.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a SLIGHTLY ALKALINE REACTION.

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, **FINDS THAT NO TWO OF THEM ARE IDENTICAL**, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, **IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION**, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

127 AWARDS (Gold, Silver, and Bronze Medals, Diplomas of Honour, and other Certificates) have been conferred upon B., W. & Co., at the Great Exhibitions of the World.

March 10th]

PRICE LIST

[1894.

ISSUED BY

BURROUGHS, WELLCOME & CO.

Manufacturing Chemists and Manufacturers' Agents,

SNOW HILL BUILDINGS,
LONDON, E.C.

SNOW HILL LABORATORIES,
DARTFORD, KENT.



ABSORBENT COTTON (LAWTON)—

Per doz.

1 oz. packets ...	4/6
2 " " ...	8/-
4 " " ...	12/6
16 " " ...	36/-

ACATHIN—

Per oz.

In $\frac{1}{2}$ oz. and 1 oz. tins (Special price for quantities) ...	11/6 $\frac{3}{4}$
--	--------------------

ALUMNOL—

Per lb.

In quantities under 2 lbs. ...	15/7 $\frac{1}{2}$
" " of 2 lbs. and under 25 lbs. ...	15/3 $\frac{3}{4}$

ANTIDOTE CASE—

Each.

Containing Stomach Syphon Tube, Hypodermic Case (containing Syringe, "Tabloids," &c.), Catheter, Murrell's Book on Poisons, Amyl Nitrite Vaporoles, Antidote Table, Gags, and 10 2-oz. stoppered bottles of Antidotes ... 63/-

ANTIDOTE CASE, NEW—

Designed by Mr. Herbert Smith ... 35/-

ANTIPYRIN POWDER AND CRYSTALS

Per oz.

... ..	3/4
--------	-----

ATOMISERS, "PAROLEINE" (B., W. & CO.)—

Each.

For the Naso-pharynx ...	3/5
Tongue Depressor for ditto ...	2/6
For Post-nasal use ...	5/2
For the Nose or Throat. For the Throat.	



The B., W. & Co. Naso-pharyngeal Paroleine Atomiser, 3s. 5d. each.

The B., W. & Co. Post-nasal Paroleine Atomiser, 5s. 2d. each.

ATOMISERS, PINOL

Each.

12/6

" STEAM (CODMAN & SHURT-LEFF'S)

18/9

BEEF AND IRON WINE (B., W. & CO.)—

Per doz.

$\frac{1}{2}$ lb. bottles ...	22/-
1 " " ...	42/-



BEEF AND IRON WINE, WITH QUININE (B., W. & CO.)—

Per doz.

$\frac{1}{2}$ lb. bottles ...	27/-
1 " " ...	50/-

BENZOSOL—

In 1 oz. packets, in quantities under 2 lbs. ...	44/6
" " of 2 lbs. and over ...	42/6

Cable and Telegraphic Address—"BURCOME LONDON."

127 AWARDS (Gold, Silver, and Bronze Medals, Diplomas of Honour, and other Certificates)

BISHOP'S GRANULAR EFFERVESCENT PREPARATIONS—

Antipyrin, 5 gr. in each drachm, regular size	...	33/-
" 10 " " " " " " " " " " " "	...	50/-
Caffeine Citrate, 1 gr. in each drachm	...	20/-
" " unstamped for dispensing	...	17/-
" Hydrobromate, 1 gr. in each drachm	...	21/-
" " unstamped for dispensing	...	18/-
Carbonate of Iron (Blaud's formula), 2 gr. in each dr.	...	11/6
Citrate of Magnesia, Saccharinated...	...	10/6
Piperazine (regular size), stamped	...	27/3
" $\frac{1}{4}$ lb. bottle, unstamped for dispensing...	...	59/8
" 1 " " " " " " " " " "	each	19/8

BOROLINE—

In Collapsible Tubes	...	14/-
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COCAINE HYDROCHLOR.—

1 gramme tubes	...	13/-
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COCOA, ANTIBILIOUS (B., W. & CO.)—

$\frac{1}{4}$ lb. tins	...	11/8
$\frac{1}{2}$ " "	...	21/-
1 " "	...	40/-

This Cocoa received the highest Award, Medal, and Certificate at the World's Fair, Chicago, 1893. It may be taken with benefit by all those who, on account of the tendency of ordinary Cocos to induce biliousness, are unable to use them.

DERMATOL—

In 1 oz. packets	...	1/6
In $\frac{1}{2}$ lb. and 1 lb. packages, in quantities under 2 lbs.	...	20/8
" " " " " " " " " " " "	of 2 lbs. & over	20/-

DERMATOL DUSTING POWDER—

In boxes containing 50 grammes (about $1\frac{1}{2}$ oz.)	...	8/-
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**DIALYSED IRON (B., W. & CO.) (WYETH)—**

4 oz. bottle, with dropper	...	27/-
1 lb. " " " " " " " " " " " "	...	42/-

DIARIES AND VISITING LISTS FOR PHYSICIANS

(published annually)—	Each.
With silk binding	2/6
With leather tuck covers	2/6

WALLETS ONLY—

Morocco...	2/-
Velvet pile	3/-
Russia leather	3/-

DIARIES AND WALLETS TOGETHER—

Morocco	4/-
Velvet pile	5/-
Russia leather	5/-

**DITHIO-SALICYLATE OF SODIUM
DIURETIN—"KNOLL"—**

1 oz. bottles	4/4
In quantities of 100 oz and upwards	4/2

DRUG MILLS (B., W. & CO.)—

Plain black enamel, size 3A	36/-
" " " " " " " " " " " "	54/-
" " " " " " " " " " " "	90/-
Gold ornamented " " " " " " " " " " " "	45/-
" " " " " " " " " " " "	65/-
" " " " " " " " " " " "	100/-



Actual size of No. 2.

EAR DRUMS, ARTIFICIAL (DR. WARD COUSINS')—

In 4 sizes, Nos. 1, 2, 3, and 4—No. 4 being the largest.

In boxes of 3 dozen	8/6
Probe and Forceps combined, for insertion and extraction of the drums	8/-

EMOL-KELEET—

A natural, emollient absorbent powder	8/6
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**"EUCALYPTIA" (TRADE MARK)—Distilled from
pure Oil of Eucalyptus Globulus—**

2 oz. bottles	15/-
1 lb. " " " " " " " " " " " "	72/-

EUCALYPTUS OLEOSA—

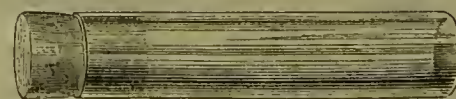
2 oz. bottles	13/-
1 lb. " " " " " " " " " " " "	66/-

EXTRACT PINOL

...	9/-
-----	-----

**FAIRCHILD DIGESTIVE PREPARATIONS,
THE—**

Glycerinum Pepticum	4 oz. bottles	22/-
" " " " " " " " " " " "	16 oz. " "	72/-
Pepsin in Scales	$\frac{1}{4}$ oz. bottles	20/-
" " " " " " " " " " " "	1 oz. " "	60/-
Pepsin, Powdered	$\frac{1}{4}$ oz. " "	20/-
" " " " " " " " " " " "	1 oz. " "	60/-
Zymine (Ext. Pancreatis)	$\frac{1}{4}$ oz. " "	20/-
" " " " " " " " " " " "	1 oz. " "	60/-



EXACT SIZE OF TUBE OF PEPTONISING POWDER.

Zymine Peptonising Powders, in boxes containing	1 doz. tubes	14/-
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Cable and Telegraphic Address—"BURCOME LONDON."

have been conferred upon B., W. & Co., at the Great Exhibitions of the World.

Fairchild's Preparations--continued.

	Per doz.
Pepsin "Tabloids," 25 in bottle	8/6
" " 100 " " 	24/-
Zymine "Tabloids," sugar- or keratin - coated, 25 in bottle	18/-
Ditto, ditto, 100 in bottle	48/-
Zymine Comp. "Tabloids," sugar- or keratin-coated, 25 in bottle	18/-
Ditto, ditto, 100 in bottle	48/-
Trypsin (Pure), 1 drachm bottles	54/-

FEEDING BOTTLES (B., W. & CO. PATENT THERMO-SAFEGUARD), with thermometer embedded

in the glass. This bottle (which has the further advantage of being graduated in ounces) is admirably adapted for use with the Zymine Peptonising Powders (Fairchild).

” **NO. 1.**

NO. 1. White flint-glass bottle with screw-glass stopper, fitted with spirit thermometer and black rubber fittings, in box complete with brushes 10/6

” NO. 2.

" NO. 2.
Similar to No. 1, but with mercury thermo-
meter and superior fittings 14/-

„ NO. 3.

	Best white flint-glass bottle with screw-glass stopper fitted with very accurate clinically scaled thermometer, best black rubber fittings, with glass valve tube and complete set of boat-shape fittings, in box, complete with brushes, &c.	...	...	...	...	...	22/-
„	Spare Tube Fittings, No. 1	...	...	...	...	...	6/-
	„ „ „ „ 2	...	...	...	...	...	6/-
	„ „ „ „ 3	...	...	...	...	...	8/6
„	Spare Bottles, No. 1 in box	...	...	...	...	...	6/6
	„ „ „ 2 „	...	...	...	...	...	9/-
	„ „ „ 3 „	...	...	...	...	...	12/-
„	Spare Boat-shaped Fittings	...	...	...	...	...	3/-

FELLOWS' SYR. HYPOPHOSPHITES—

	Less than 1 doz.	1 doz. & less than 3 doz.	3 doz. & less than 12 doz.	
	Per doz.	Per doz.	Per doz.	
Large ...	... 66/-	... 60/-	... 58/-	} net
Small ...	... 38/-	... 34/-	... 33/-	

Unstamped (for compounding prescriptions only),
12/- and 6/- less per doz. respectively.

"FRANZ JOSEF" NATURAL APERIENT
WATER Per doz. bottles 1

WATER	Per doz. bottles	12/- net
In quantities of not less than 1 case (50 bottles)		40/- "
In quantities of not less than 5 cases (of 50 bottles each)	... ..	37/6 per case net



HAZELINE (*B., W. & Co.*)—A water-white liquid, aromatic, styptic, and anodyne, obtained (by distillation) from the green leaves and twigs of the *Hamamelis Virginica*. Is used both externally and internally for all kinds of hemorrhage. Invaluable in hæmorrhoids.

"HAZELINE" (TRADE MARK)—

HAZELINE" (TRADE MARK)—						Per doz.
$\frac{1}{4}$ lb. bottle	...	...	...	...	...	14/—
1 lb. "	...	...	...	...	...	42/—

**"HAZELINE" (TRADE MARK) CREAM, PREPARED
WITH "LANOLINE"—** Per doz.

WITH "LANOLINE"—						Per doz.
In small tubes ...	...	...	...	...	...	4/6
In larger (regular) tubes .	...	...	...	...	...	14/-
In 2 oz. pots (regular)	...	...	...	...	...	8/6
1 lb. jars	...	...	...	...	...	60/-
Vulcanite Nozzles attachable to tubes—						
Straight for urethral use	...	...	...	...	...	12/-
Curved for rectal use	...	...	...	...	...	12/-

"HAZELINE" (TRADE MARK) SNOW—

2 oz. pots 12/-

**"HAZELINE" (TRADE MARK) IMPROVED
SUPPOSITORIES—**

In boxes of 1 doz. 22/-

**"HAZELINE" (TRADE MARK) COMPOUND
SUPPOSITORIES—**

In boxes of 1 doz. 22/-

HYPNAL—

In 1 oz. pkts., in quantities under 2 lbs.	38/-
In 1 oz. pkts. of 2 lbs. and upwards...	36/-

HYPODERMIC APPARATUS AND "TABLOIDS."



PATENT ASEPTIC ALUMINUM SYRINGE. (B., W. & Co.)
Especially adapted for use with all solutions for subcutaneous
medication, and not impaired by any climatic condition.

HYPODERMIC APPARATUS—

HYPODERMIC APPARATUS—				Each.
Hypodermic Mortar and Pestle (B., W. & Co.), for crushing "Tabloids"				—/3
SYRINGES, Aseptic. Simple				5/—
" " New, Aluminium, B., W. & Co.'s				
" " Patent				7/—
" " Nickel Silver				7/—
" " Solid Silver				10/—
NEEDLES, for Nickel Silver and Aluminium Syringes				1/4
" For Solid Silver Syringes				2/—
" Dental, plain				2/6
" " gilt				3/—
" For Exploring				2/3
" Incorrodible, Gold and Platinum				2/—
" " Iridium and Platinum				3/—

Asbestos Packings for Aseptic Aluminium Syringe 2/-

Syringe Holders for Dental Practice	3/4
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HYPODERMIC POCKET CASES (B., W. & CO.)—

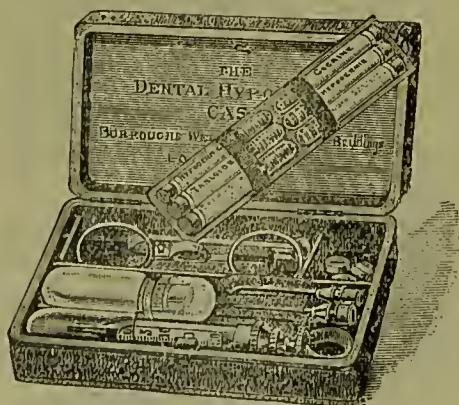


No. 7. Dimensions of Case : Length, $3\frac{3}{4}$ in. : width, 3 in. ; Depth, $\frac{3}{4}$ in.

Cable and Telegraphic Address—"BURCOME LONDON."

127 AWARDS (Gold, Silver, and Bronze Medals, Diplomas of Honour, and other Certificates)

- No. 7, arranged to contain 12 Tubes of the HYPODERMIC "TABLOIDS," Hypodermic Syringe with 2 Needles, and Mortar and Pestle for crushing the "Tabloids" ... empty 5/-
Ditto fitted complete, and filled with 12 Tubes of the HYPODERMIC "TABLOIDS," selected from the list... 12/6
Ditto in Aluminium, plain, fluted, or hammered ... empty 11/6
Ditto fitted complete, with Aluminium Syringe, &c. ... 18/-
- No. 9, arranged to contain 6 Tubes of the HYPODERMIC "TABLOIDS," Hypodermic Syringe with 2 Needles, and Mortar and Pestle for crushing the "Tabloids" ... empty 5/-
Ditto, arranged and fitted complete, and filled with 6 Tubes of HYPODERMIC "TABLOIDS," selected from the list ... 10/6
- No. 13, arranged to contain 12 Tubes of the HYPODERMIC "TABLOIDS," and Solid Silver Hypodermic Syringe ... empty 4/-
Ditto fitted complete, and filled with 12 Tubes of HYPODERMIC "TABLOIDS," selected from list ... 18/-
- No. 21, arranged to contain 9 Tubes of the HYPODERMIC "TABLOIDS," Hypodermic Syringe with 2 Needles, 2 small Vials, glass-stoppered and capsuled, for water or ether, Mortar and Pestle ... empty 5/-
Ditto fitted complete, and filled with 9 Tubes of HYPODERMIC "TABLOIDS," selected from list ... 12/6
- No. 26, fitted complete with 4 Tubes of the HYPODERMIC "TABLOIDS," Hypodermic Syringe and Needles, with Mortar and Pestle ... 10/-
- No. 28, Small limp Morocco Case, arranged to contain 12 Tubes only of the HYPODERMIC "TABLOIDS" ... 1/8
- No. 30, Contains Syringe, Needles, Mortar and Pestle, and 15 Tubes assorted HYPODERMIC "TABLOIDS," fitted complete ... 14/-

**DENTAL CASE—**

Containing specially constructed Syringe, with both straight and curved incorrodible needles, six Tubes of Hypodermic "Tabloids" assorted, Mortar and Pestle, and newly-designed removable Syringe-holder ... 21/-

HYPODERMIC "TABLOIDS" (COMPRESSED DRUGS)—

The fact cannot be too pointedly emphasised or too frequently repeated that solutions for Hypodermic injection should in all cases be prepared at the moment they are called for. It is to enable this to be done easily and quickly that Hypodermic "Tabloids" were introduced. They contain an absolutely definite and accurate quantity of their respective active principles in combination with a perfectly soluble and innocuous base. They are quite free (as a leading medical journal pointed out) from objectionable and irritative salts. These "Tabloids" are used sub-lingually with equal effect where the subcutaneous method is at all objected to.

(Prepared by BURROUGHS, WELLCOMBE & Co.)

Put up in Tubes, each containing 20 "Tabloids," with the exception of those marked with an asterisk, which contain only 12 "Tabloids" ... 8/-

Please note that, due to the scarcity of the alkaloid, Hypod. "Tabloids" of Pilocarpine, $\frac{1}{2}$ -gr., $\frac{1}{4}$ -gr., and $\frac{1}{8}$ -gr., have been advanced to 22/-, 15/-, and 12/- per dozen tubes respectively.

		No.
Aconitine, Nitrate Crystalline	1/250 gr.	(76)
Apomorphine Hydrochlorate	1/10 gr.	(19)
Apomorphine Hydrochlorate	1/15 gr.	(51)
Atropine Sulphate	1/150 gr.	(15)
Atropine Sulphate	1/100 gr.	(14)
Atropine Sulphate	1/60 gr.	(13)
*Caffeine Sodio-Salicylate	1/2 gr.	(43)
Cocaine Hydrochlorate	1/10 gr.	(23)
Cocaine Hydrochlorate	1/6 gr.	(22)
*Cocaine Hydrochlorate	1/4 gr.	(54)
*Cocaine Hydrochlorate	1/2 gr.	(48)
Cocaine Phosphate	1/4 gr.	(44)
Colchicin	1/100 gr.	(45)
*Cornutin Hydrochloride	1/60 gr.	(53)
Curare	1/12 gr.	(46)
Digitalin Crystalline	1/100 gr.	(30)
Ergotinine Citrate	1/100 gr.	(37)
Ergotinine Citrate	1/200 gr.	(38)
Eserine Salicylate	1/100 gr.	(39)
Homatropine Hydrochlorate	1/250 gr.	(47)
Hydrarg. Perchlor.	1/60 gr.	(29)
Hydrarg. Perchlor.	1/30 gr.	(28)
*Hydrarg. Sozoiodol	1/4 gr.	(67)
Hyoscine Hydrobromate	1/200 gr.	(49)
*Hyoscine Hydrobromate	1/75 gr.	(48)
*Hyoscine Hydrobromate	1/10 gr.	(60)
*Hyoscyamine Sulphate	1/80 gr.	(31)
*Hyoscyamine Sulphate	1/20 gr.	(41)
Morphine Bimeconate	1/8 gr.	(27)
Morphine Bimeconate	1/6 gr.	(25)
Morphine Bimeconate	1/4 gr.	(25)
Morphine Bimeconate	1/3 gr.	(24)
Morphine Hydrochlor.	1/4 gr.	(55)
Morphine Hydrochlor.	1/6 gr.	(66)
Morphine Sulphate	1/12 gr.	(6)
Morphine Sulphate	1/8 gr.	(5)
Morphine Sulphate	1/6 gr.	(4)
Morphine Sulphate	1/4 gr.	(3)
Morphine Sulphate	1/3 gr.	(2)
*Morphine Sulphate	1/2 gr.	(1)
Morphine Sulphate	1/12 gr.	(12)
Atropine Sulphate	1/250 gr.	(11)
Morphine Sulphate	1/8 gr.	(11)
Atropine Sulphate	1/200 gr.	(10)
Morphine Sulphate	1/6 gr.	(10)
Atropine Sulphate	1/180 gr.	(9)
Morphine Sulphate	1/4 gr.	(9)
Atropine Sulphate	1/150 gr.	(8)
Morphine Sulphate	1/3 gr.	(8)
Atropine Sulphate	1/120 gr.	(7)
*Morphine Sulphate	1/2 gr.	(7)
Atropine Sulphate	1/100 gr.	(65)
Nitro-Glycerine	1/250 gr.	(65)
Pilocarpine Hydrochlorate	1/10 gr.	(34)
Pilocarpine Hydrochlorate	1/6 gr.	(64)
*Pilocarpine Hydrochlorate	1/3 gr.	(33)
*Pilocarpine Hydrochlorate	1/2 gr.	(32)
*Quinine Hydrobromate	1/2 gr.	(42)
*Sclerotinic Acid	1/2 gr.	(21)
*Sclerotinic Acid	1 gr.	(20)
Sodium Phosphate Co.	1/2 gr.	(63)
*Spartine Sulphate	1/2 gr.	(55)
Strophanthin	1/500 gr.	(52)
Strychnine Nitrate	1/15 gr.	(62)
Strychnine Nitrate	1/10 gr.	(61)
Strychnine Sulphate	1/150 gr.	(18)
Strychnine Sulphate	1/100 gr.	(17)
Strychnine Sulphate	1/60 gr.	(16)

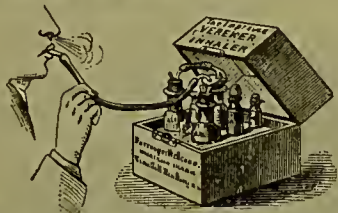
Cable and Telegraphic Address—"BURCOMBE LONDON."

have been conferred upon B, W. & Co., at the Great Exhibitions of the World.

ICHTHYOL—		Per doz.
1 oz. bottles	...	16/-
	...	Per lb.
$\frac{1}{2}$ lb. and 1 lb. tins	...	15/-
	...	Per doz.
Ichthyol Capsules (each 4 min.), bottles of 50	...	27/-
" Ointment (in Collapsible Tubes)	...	4/6
" " (in Glass-Stoppered Bottles)	...	14/0
" " (in 8 oz. Glass Jars)	...	42/-

INHALERS.

The satisfaction given by our various Inhalers have made them exceedingly popular, and are frequently inquired for by buyers from abroad. It should be noted here, perhaps, that none of these Inhalers are sent out charged with any medicament, as the material necessary for charging can always be obtained from any pharmacy.



CHLORIDE OF AMMONIUM (VEREKER) INHALER	Each.
--	-------

Delivers perfectly neutral fumes of Ammonium Chloride.

CHLORIDE OF AMMONIUM (PIPE) INHALER	5/6
-------------------------------------	-----

In the form of an ordinary smoker's pipe.

HOT AIR INHALER (Sir Morell Mackenzie's)	14/-
--	------

MENTHOL POCKET (DRY) INHALER	12/-
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Easily carried in the vest pocket.

MENTHOL ORO-NASAL (DRY) INHALER	36/-
---------------------------------	------

For inhalation by either mouth or nose.

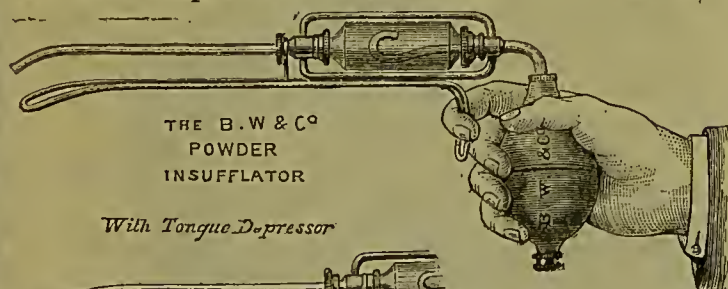
PINOL EUCALYPTIA (DRY) INHALER	14/-
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A simple little instrument for the inhalation of Pinol, Eucalyptia, or other volatile inhalant.

WALLICH'S STEAM INHALER	48/-
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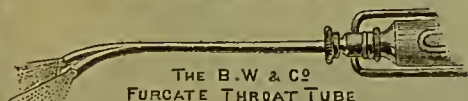
A perfected inhaler for the inhalation of steam impregnated with any medicament.

Oro-Nasal Respirator for ditto	32/-
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THE B. W. & CO
POWDER
INSUFFLATOR

With Tongue Depressor



THE B. W. & CO
FURCATE THROAT TUBE

INSUFFLATORS. (B., W. & Co.'s Patent)	Each.
---------------------------------------	-------

The B., W. & Co. Powder Insufflator with one Cylinder	10/-
---	------

Tongue Depressor for same	2/6
---------------------------	-----

Extra Powder Cylinders, each	2/-
------------------------------	-----

Case to contain three Powder Cylinders	1/6
--	-----

The B., W. & Co. Furcate Throat Tube	2/-
--------------------------------------	-----

IODIC-HYDRARG, 1 oz. bottles	24/-
------------------------------	------

IODOPYRIN, in 1 oz. pkts., in quantities under 2 lbs.	48/9
---	------

" in 1 oz., in quantities of 2 lbs. and upwards	46/9
---	------

(Special prices for quantities.)

THE KEPLER PREPARATIONS.

KEPLER ESSENCE OF MALT—	Per doz.
-------------------------	----------

In bottles, champagne pints	14/-
-----------------------------	------

" " quarts	24/-
------------	------

KEPLER ESSENCE OF MALT, "BITTER"—	Per doz.
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In bottles, champagne pints	14/-
-----------------------------	------

" " quarts	24/-
------------	------



THE KEPLER GROUP OF DIGESTIVES AND NUTRIENTS.

THE KEPLER EXTRACT OF MALT.

We have so lately given in the trade and medical journals an elaborate report showing a comparative estimation by independent hands of various brands of Malt Extract, that it is only necessary now to say that the high character of the Kepler products, as shown in the reports referred to, is still maintained both by endeavouring to improve the process, to use the same care, and to keep to the same high quality of grain used for the malt. What more conclusive evidence to readers of THE CHEMIST AND DRUGGIST than its own judgment upon the matter?

"The Kepler Extract of Malt is worthy of special commendation. It is, we venture to say, BY FAR THE BEST we have seen."

KEPLER EXTRACT OF MALT.	$\frac{3}{4}$ lb. bottles	20/-
-------------------------	---------------------------	------

Ditto with Beef and Iron	$\frac{1}{2}$ lb. bottles	36/-
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" " " "	$\frac{1}{2}$ lb. bottles	47/-
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Ditto with Cascara Sagrada	$\frac{3}{4}$ lb. bottles	26/-
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" " " "	$\frac{1}{2}$ lb. bottles	47/-
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Ditto with Castor Oil	in bottles	8/6
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" (Malto-Ricine)	$\frac{3}{4}$ lb. bottles	20/-
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Ditto with Chocolate	$\frac{3}{4}$ lb. bottles	26/-
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" " " "	$\frac{1}{2}$ lb. bottles	47/-
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Ditto with Ferrous Iodide	$\frac{1}{2}$ lb. bottles	26/-
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" " " "	$\frac{1}{2}$ lb. bottles	47/-
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Ditto with Hops	$\frac{1}{2}$ lb. bottles	22/-
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" " " "	$\frac{1}{2}$ lb. bottles	38/-
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Ditto with Hypophosphites	$\frac{3}{4}$ lb. bottles	24/-
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" " " "	$\frac{1}{2}$ lb. bottles	45/-
---------	---------------------------	------

Ditto with Iron Pyrophosphate	$\frac{3}{4}$ lb. bottles	22/-
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" " " "	$\frac{1}{2}$ lb. bottles	38/-
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Ditto with Iron and Quinine Cit.	$\frac{3}{4}$ lb. bottles	30/-
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" " " "	$\frac{1}{2}$ lb. bottles	56/-
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Ditto with Iron, Quinine, and Strych. (Easton's)	$\frac{3}{4}$ lb. bottles	30/-
--	---------------------------	------

" " " "	$\frac{1}{2}$ lb. bottles	56/-
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Ditto with Pancreatin	$\frac{3}{4}$ lb. bottles	26/-
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" " " "	$\frac{1}{2}$ lb. bottles	47/-
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Ditto with Pepsin	$\frac{3}{4}$ lb. bottles	26/-
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" " " "	$\frac{1}{2}$ lb. bottles	47/-
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Ditto with Pepsin and Pancreatin	$\frac{3}{4}$ lb. bottles	26/-
----------------------------------	---------------------------	------

" " " "	$\frac{1}{2}$ lb. bottles	47/-
---------	---------------------------	------

Ditto with Peptones	$\frac{3}{4}$ lb. bottles	30/-
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" " " "	$\frac{1}{2}$ lb. bottles	56/-
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Ditto with Phosphates (Chemical Food)	$\frac{3}{4}$ lb. bottles	30/-
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" " " "	$\frac{1}{2}$ lb. bottles	56/-
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Ditto with Phosphorus	$\frac{3}{4}$ lb. bottles	26/-
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" " " "	$\frac{1}{2}$ lb. bottles	47/-
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Cable and Telegraphic Address—"BURCOME LONDON."

127 AWARDS (Gold, Silver, and Bronze Medals, Diplomas of Honour, and other Certificates)

**KEPLER SOLUTION (OF COD LIVER OIL IN EXT. MALT)**

...	...	3/4 lb. bottles	...	20/-
Ditto, ditto...	...	1 1/2 lb. bottles	...	36/-
Ditto (Kepler Solution) and Ferrous Iodide	...	1 1/2 lb. bottles	...	26/-
Ditto (Kepler Solution) and Hypophosphites	...	1 1/2 lb. bottles	...	47/-
Ditto (Kepler Solution) with Pancreatin	...	1 1/2 lb. bottles	...	26/-
Ditto (Kepler Solution) with Phosphates (Chemical Food.)	...	1 1/2 lb. bottles	...	47/-
Ditto (Kepler Solution) with Phosphorus	...	1 1/2 lb. bottles	...	30/-
	...	1 1/2 lb. bottles	...	56/-
	...	1 1/2 lb. bottles	...	26/-
	...	1 1/2 lb. bottles	...	47/-

LANO-CREOLIN—

Ointment in Collapsible Tubes	...	10/-
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"LANOLINE" AND PREPARATIONS.**"LANOLINE" (TRADE MARK.)**

(Called Adeps Lanae Hydrosus in B.P. Addendum, 1890, and manufactured under the Patent of Prof. Liebreich)—

"Lanoline" in 1 lb. and 7 lb. tins	...	2/8
" Anhydrous, in 1 lb. tins	...	3/4
" Veterinary, in 1 lb. tins	...	2/-
" Ointment Base, 1 lb. tins	...	2/2
(Ung. Lanolini).		
" Ointment Base Anhydrous	...	2/10
(Ung. Lanolini Anhydrosi).		
" Mercurial Ointment (33 1/3 % Mercury)	...	6/6
" Cold Cream, 2 oz. pots	...	14/-
" Elite Toilet Cream, in Aluminium cases	...	30/-
" "Hazeline" Cream (See Hazeline).		
" " " in Tubes	...	4/6
" Pomade, 2 oz. pots	...	14/-
" Shaving Cream (2 oz. Collapsible Tubes)	...	8/-
" Toilet, in specimen boxes	...	26/-
" " (Collapsible Tubes)	...	4/6
" Ichthyol Ointment	...	9/-
" " in 8 oz. jars	...	4/6
" Toilet Soap	...	14/-
" " " " "	...	42/-
" " " " "	...	4/6
" "Eucalyptia" Soap	...	8/-
" Ichthyol	...	8/-
" Pine Tar	...	6/-
" Pinol	...	8/-

"LEVICO" WATER (Ferro-arseniated)—

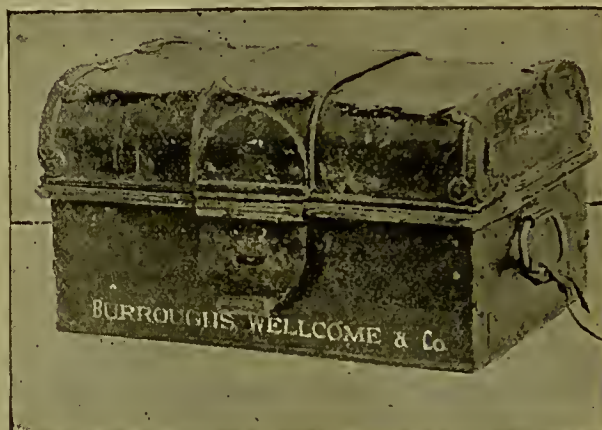
"Strong" or "Mild"	...	15/-
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LORETIN—

Less than 2 lbs., in 1 oz. and 4 oz. packets	...	30/-
2 lbs. and upwards	...	29/-

MEDICINE CHESTS AND CASES.

The many advantages which "Tabloids" present over liquid preparations in medical outfits are too obvious for repetition. Our vast experience in this direction, having dealt in late years with all sorts and sizes of expeditions operating in almost every part of the world, is always at the service of inquirers for medical equipments. But we should like to point out that although the particulars and illustrations in this list will give a very fair idea of the character of our cases, the prices quoted are merely approximate, since the exact price depends upon the contents. Naturally, scarcely any two cases can be said to be fitted alike, for not only the given climatic, but also special personal, requirements have to be considered. In asking for estimates kindly indicate clearly the locale wherein the expedition operates, the number of persons involved, and the length of time which supplies are supposed to cover.



ONE OF THE B. W. & CO. MEDICINE-CHESTS, CARRIED BY H. M. STANLEY THROUGH DARKEST AFRICA, AND BROUGHT BACK AFTER THREE YEARS' JOURNEY WITH REMAINING CONTENTS UNIMPAIRED.

"THE ALPINE," for Alpine Tourists, fitted complete	Each.	21/-
No. 10 (B. W. & Co.), Metal Pocket Case (suitable for Cyclists)	Per doz.	42/-
No. 11 (B. W. & Co.), Metal Pocket Case, for Tourists, fitted with "Tabloids"	from	54/-
No. 12 (B. W. & Co.), Metal Pocket Case, nickel plated, containing 5 glass stoppered bottles, fitted with "Tabloids"	Each.	8/6
No. 14 (B. W. & Co.), Morocco Case, containing 20 2-dram vials, fitted with "Tabloids," &c.	from	18/-
No. 15 (B. W. & Co.), Morocco (superior) Case, containing 10 1/2-oz. vials, fitted with "Tabloids," &c.	from	20/-
No. 16 (B. W. & Co.), Morocco, containing 8 1/2-oz. and 6 1-dram vials, fitted with "Tabloids," &c.	from	20/-
No. 16 Modified Morocco, containing 16 3-dram vials and 8 1-dram vials	...	...



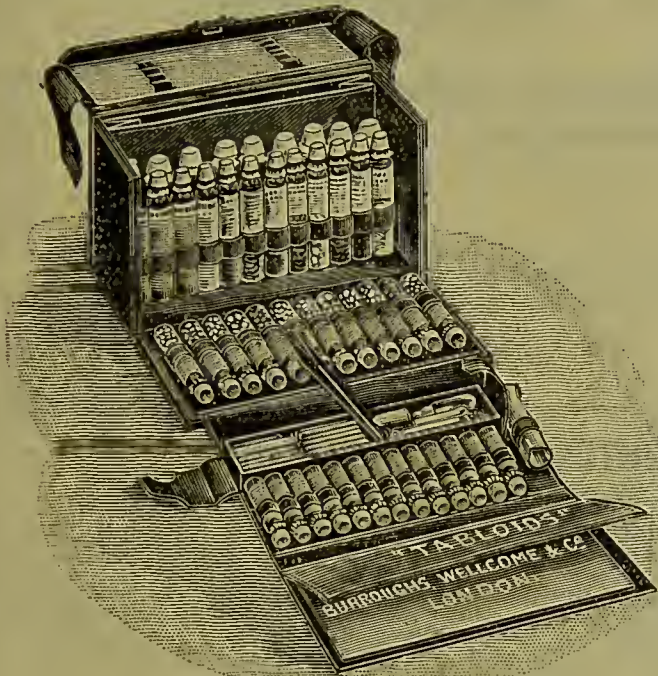
No. 16A Case.

No. 16A (B. W. & Co.), containing 8 1/2-oz. vials, fitted with "Tabloids," &c.	...	from 20/-
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Cable and Telegraphic Address—"BURCUM LONDON."

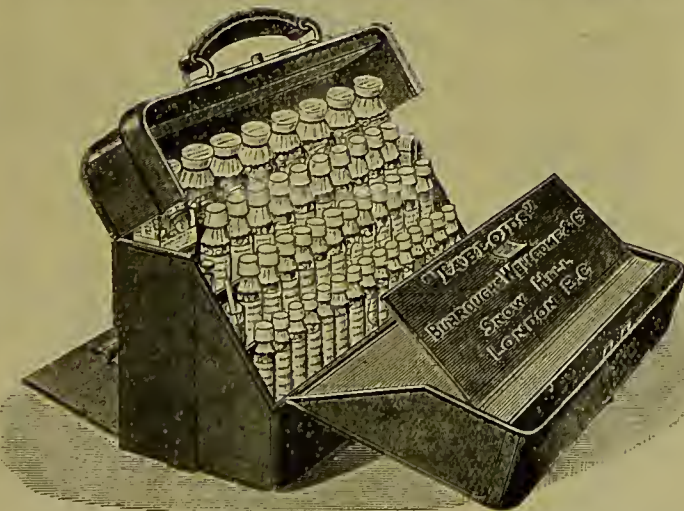
have been conferred upon B., W. & Co., at the Great Exhibitions of the World.

- No. 17 (B., W. & Co.), Calf-covered Case, containing 16 $\frac{1}{2}$ -oz. vials, fitted with "Tabloids," &c.... from 30/-
No. 18 (B., W. & Co.), Hand Case. Size, 6 in. by 4 in. by 9 $\frac{1}{2}$ in. Containing 9 1-oz., 24 $\frac{1}{2}$ -oz. vials, and loops for Instruments, fitted with "Tabloids," &c. ... from 60/-



No. 18A Case.

- No. 18A (B., W. & Co.), Hand Case, containing 9 1-oz., 24 $\frac{1}{2}$ -oz., and 13 2-dram vials, and fitted with measure, extra pockets and loops for instruments, fitted with "Tabloids," Hypodermic "Tabloids," Syringe, Needles, &c.... 80/-
No. 19 (B., W. & Co.), Carriage or Hand Case. Size, 11 $\frac{1}{2}$ by 5 $\frac{1}{4}$ by 6 in. Fitted with "Tabloids," Hypodermic "Tabloids," Syringe, &c. ... from 120/-



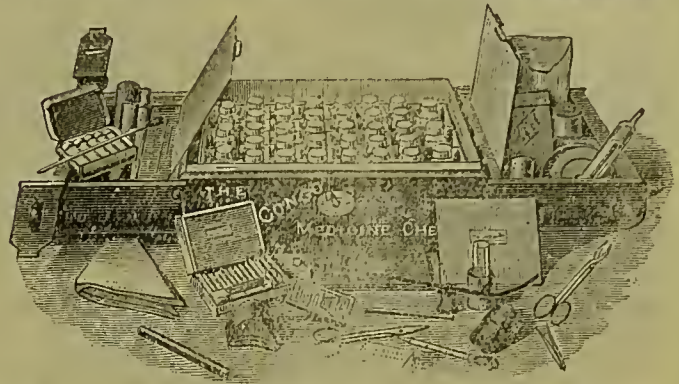
No. 20 Case.

- No. 20 (B., W. & Co.), Carriage Case. Vials arranged in tiers to display labels. Contains 8 2-oz. stoppered, 10 1-oz., 12 6-dr., and 15 4-dr. vials. Space and loops for Instruments, &c. Size, 12 by 5 $\frac{1}{4}$ by 9 $\frac{1}{2}$ inches. Fitted complete with "Tabloids," Hypodermic "Tabloids," Syringe, &c. ... from 120/-

THE B., W. & CO. "LIVINGSTONE" MEDICINE CHEST—

Each.

Made of dressed and varnished raw hide, very light, portable, and durable, fitted with 12 4-oz. stoppered Bottles, fitted complete with "Tabloids," &c. ... from 120/-



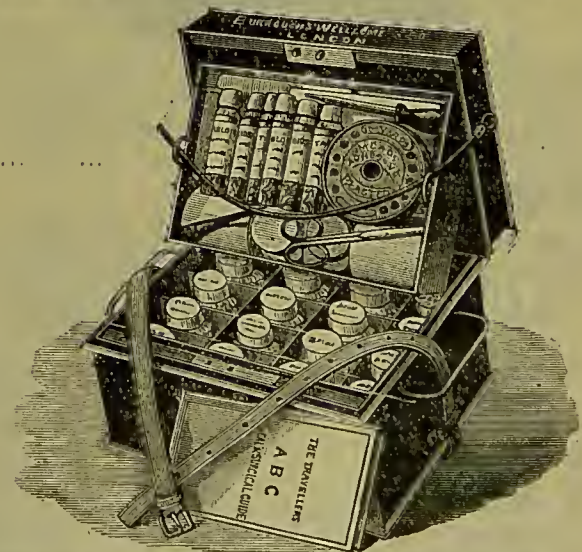
THE B., W. & CO. "CONGO" MEDICINE CHEST— (As supplied to Mr. H. M. STANLEY, Missionaries, and others)

Made of Japanned Sheet Iron, air and water tight.

Weight of Case when fitted with "Tabloids," about 40 lbs. Fitted with Compressed and other Medicines in movable wooden tray, Instruments and Medical Guide Book, &c. ... from £10 to £20

THE B., W. & CO. "INDIAN" MEDICINE CHEST—

In Teak wood. Contains 20 2-oz. glass-stoppered bottles. Fitted complete with Medicines, Instruments, &c. ... from 75/-



"INDIAN" MEDICINE CHEST, made of Japanned Metal, with 16 glass-stoppered bottles, fitted complete ... from 70/-

MENTHOL PLASTERS (WITH RACKS)—

1 doz.,	3 doz.,	12 doz.
less than 3 doz.	less than 12 doz.	6/- per doz. net
7/6	7/-	Without racks 6d. per doz. less.

MENTHOL PLASTER ROLLS—

1 doz.,	3 doz.,	12 doz.
less than 3 doz.	less than 12 doz.	28/- per doz. net
36/-	32/-	

Cable and Telegraphic Address—"BURCOME LONDON."

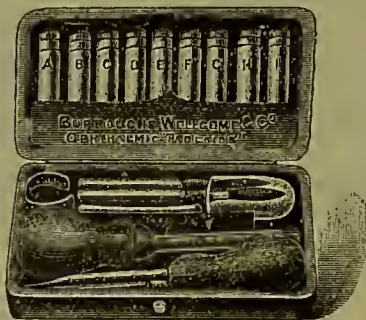
127 AWARDS (Gold, Silver, and Bronze Medals, Diplomas of Honour, and other Certificates)

MICRANIN , in 1 oz. tins.	Per lb.
Less than 2 lbs.	52/6
Quantities of 2 lbs. and over	51/8
(Special terms for large quantities.)	

OPHTHALMIC APPARATUS AND TABLOIDS.

This new series of "Tabloids" has already attained a considerable measure of success, and their convenience as an improved method of treating complaints and affections of the eye has been highly appreciated both by specialists and general practitioners. Ophthalmic "Tabloids" obviate the objections levelled at ordinary solutions, and constitute a perfectly sterile and reliable mode of administering remedies to so sensitive an organ as the eye. They consist of minute discs as thin as note-paper, extremely delicate in appearance, very soluble, and prepared with a perfectly innocuous and non-irritating basis. Each "Tabloid" in this, as in other classes of "Tabloids," holds a definite quantity of active principle. With two exceptions they are intended to be inserted bodily within the conjunctival sac, whereon the lachrymal secretion quickly dissolves them and diffuses over the general surface.

OPHTHALMIC APPARATUS —	Per doz.
Holders for insertion of Ophthalmic "Tabloids" ...	8/-
Chromatic revolving dial, and set of test types for the testing of colour vision, and the detection of defective sight. In cover complete ...	Each. 2/-



Ophthalmic Pocket Case, containing nine tubes of "Tabloids," "Tabloid" holder, solution dropper, mortar, pestle, and two camel-hair brushes. Fitted complete 7/6

OPHTHALMIC "TABLOIDS."

OPHTHALMIC "TABLOIDS"—Supplied in tubes, each containing 25 "Tabloids," with the exception of letters D, E, and L, which contain only 12 6/-

In prescribing or ordering it will be sufficient to quote the letter, for instance:—R. Tabloidi Ophthalmici (B., W. & Co.) "A."

	Gr.
A Atropia Sulph.	1/200
B { Atropia Sulph.	1/200
Cocaine	1/200
C Cocaine	1/20
D Atropia Sulph.	1/20
E Homatrop. Hydroch.	1/40
F Eserine Salicyl.	1/600
G { Eserine Salicyl.	1/500
Tropacocaine Hydroch.	1/100
H Homatrop. Hydroch.	1/400
*J Hydrarg. Perchlor.	1/1000
K Pilocarpine	1/400
L Tropacocaine Hydroch.	1/30
M { Pilocarpine	1/500
Cocaine	1/200
N Homatrop. Hydroch.	1/600
O { Homatrop. Hydroch.	1/240
Cocaine	1/24
*P Boracic Acid (Perfumed with Otto of Rose) 6	
Q Duboisine Sulph.	1/250
R Zinc Sulphate	1/250

* For use in solution.

"PAROLEINE" (TRADE MARK) —	Per doz.
In 4 oz. bottles	8/6
„ 1 lb. „	24/-
Each	

PENS, STYLOGRAPHIC (Gold-mounted and with Iridium points)	10/-
„ THE "SWAN" FOUNTAIN	10/6
„ „ „ Gold-mounted	12/6

PHENACETIN-BAYER , in 1 oz. bottles at ...	Per doz. 18/-
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PHENO-SALYL —	Per lb.
In 1 lb. bottles, in quantities of less than 2 lbs. ...	6/6 $\frac{3}{4}$
„ 2 oz. „ „ 2 lbs. and upwards ...	5/11 $\frac{1}{4}$
„ „ „ „ less than 2 lbs. ...	7/4 $\frac{3}{4}$
„ „ „ „ 2 lbs. and upwards ...	6/9 $\frac{1}{4}$
Pheno-Salyl, for Gauze—	
In 1 lb. bottles, in quantities of less than 2 lbs. ...	6/9 $\frac{1}{4}$
„ 2 oz. „ „ 2 lbs. and upwards ...	6/3
„ „ „ „ less than 2 lbs. ...	7/7 $\frac{1}{4}$
„ „ „ „ 2 lbs. and upwards ...	7/1

PHOTOGRAPHIC "TABLOIDS."

Being prepared by dry compression, Photographic "Tabloids" do not decompose, and retain in their fullest activity the qualities of the various salts which they severally represent, and so, in contradistinction to the ordinary ready-made solutions which undergo oxidation, decomposition, or other changes, in addition to their being inconvenient of transport, we have uniformity, reliability, and portability. The success which has attended the use of these "Tabloids" proves that they save time, save material, and prevent disappointment. Photographic "Tabloids" are absolutely indispensable to the amateur, either at home or on tour, who will find them accurate, energetic, lasting, and reliable.

DEVELOPING "TABLOIDS" —	Each.
Eikonogen in bottles of 15 ...	4/6
„ „ „ „ „ 45 ...	9/-
„ with Quinol „ „ „ 15 ...	4/6
„ „ „ „ „ 40 ...	9/-
Paramidophenol „ „ „ „ 12 ...	4/6
„ „ „ „ „ 30 ...	9/-
Pyro-Developer „ „ „ „ 25 ...	4/6
„ „ „ „ „ 70 ...	9/-
Pyrogallie Acid with Eikonogen „ „ „ 20 ...	4/6
„ „ „ „ in bottles of 50 ...	9/-
Quinol „ „ „ „ „ 25 ...	4/6
„ „ „ „ „ 70 ...	9/-
„ with Pyro „ „ „ „ „	4/6
„ „ „ „ „ „	9/-

ACCELERATOR "TABLOIDS" —	
In bottles of 30 ...	3/-
„ „ „ „ „ 100 ...	6/6

RESTRAINER "TABLOIDS" —	
Potassium Bromide, 1 gr. each, in bots. of 50 ...	3/-
„ „ „ „ „ 125 ...	6/6
Ammonium Bromide, 1 gr. „ „ 50 ...	3/-
„ „ „ „ „ 125 ...	6/6

TONING "TABLOIDS" —	
„ Gold Compound, in tubes containing 3 "Tabloids"	8/-

"PINOL" (TRADE MARK) PERFUME , an Antiseptic Cologne Water in 2 oz. bts. ...	16/-
Ditto ditto ... in 4 oz. bts. ...	30/-

"PINOL" (TRADE MARK) (Distilled Essence of the Pinus Pumilio).	
$\frac{1}{2}$ oz. bottles	15/-
1 „ „ „ „ „	24/-

"PINOL" (TRADE MARK) EXTRACT , in metal screw-capped bottles	9/-
„ PASTILLES , in boxes	9/-

Cable and Telegraphic Address—"BURCOTE LONDON."

have been conferred upon B. W. & Co., at the Great Exhibitions of the World.

POWDER INSUFFLATORS (PATENT, B. W. & CO.) ... Each. 10/-
Per doz. 2 -

PRESCRIPTION BOOKS (B. W. & CO.) ... 2 -

RECTAL INJECTORS (DR. WARD COUSINS)—

For Fluid Remedies, 3 drm. size ... }
" " 1 oz. " " } 36/-
" Ointments " " }

REMINGTON'S PHARMACY ... Each 21/-

SACCHARIN, 1 oz. bots. ... Per doz. 54/-

" 1 lb. ... net 42/-
(Special prices for quantities.)

" Soluble, $\frac{1}{4}$ oz. oval bottles with scoop ... Per doz. 14/-
" " 1 " bottles ... 46/-

" 1-lb. ... net 40/-
(Special prices for quantities.)

SALODENT, in 2 oz. bottles ... Per doz. 14/-

Ditto 4 oz. bottles ... 24/-

SALOL IN CRYSTALS ... Per oz. 1/3

" Per lb. 15/-
(Special prices for quantities)

SODA-MINT GRANULES—

In oval bottles ... Per doz. 4/6

SODIUM DITHIO-SALICYLATE ... Per lb. 35/6

"SOLOIDS" (TRADE MARK) for making Anti-septic Solutions—

Hyd. Perchlor., 25 in bot. ... Per doz. 8/6

" " 100 in bot. ... 24/-

Iodic Hydrarg., 24 in bot. ... 7/6

" " 100 in bot. ... 16/-

"Soloids" L.G.B., 100 in bot. ... 24/-

STROPHANTHUS TINCTURE—

$\frac{1}{2}$ oz. bottles, 4/-; 1 oz. bottles, 6/- per doz.

1 lb. " ... Each 6/-

SULPHONAL IN CRYSTALS ... Per oz. 1/6

SUPPOSITORIES—

Glycerine, 12 in box ... Per doz. boxes 22/-

Hazeline, 12 in box ... 22/-

Hazeline Compund, 12 in box ... 22/-

Meat Zyminised, 12 in box ... 22/-

Milk Zyminised, 12 in box ... 22/-

SOLUBLE "TABLOIDS" OF COMPRESSED DRUGS.

"TABLOIDS" GENERALLY.

Of the merits of "Tabloids" generally it is now unnecessary to speak. Their portability, ready solubility, prompt and unimpeded action, absolute purity, moderate cost, convenient form, and accuracy as to dosage, have received testimony from the medical profession all the world over, as well as from pharmacists, travellers, explorers, and medical missionaries. They have been well tested under most trying conditions, under every variety of climate, and their form, solubility, and activity have withstood these trials triumphantly. The late Dr. Parkes, of the Stanley Expedition, reported of them in his last published work, "Guide to Health in Africa":—"The medicinal preparations which I have throughout recommended are of those of Burroughs, Wellecome & Co., as I have found after a varied experience of the different forms in which drugs are prepared for foreign use, that there are none which can be compared with them for convenience of portability in transit, and for unfailing reliability in strength of doses even after prolonged exposure."

"TABLOIDS"—continued.

	Per doz. Vinal-grette Ovals.	Per doz. Bots. of 100.	Per 1,000. In Bots. of 500.
Agathin, 4 gr. ...	32/-	120/-	...
Aloin, 1-10 gr. ...	6/-	...	...
Aloin, Compound (Anti-constipation), plain or sugar-coated ...	8/6	14/-	10/6
Alumol, 4 gr. ...	7/6	18/-	...
Ammon. Bromide, 5 gr. ...	...	8/6	6/-
" " 10 gr. ...	...	12/-	...
Ammon. Carb., 3 gr. ...	...	14/-	...
Ammon. Chloride, 3 gr. ...	4/6	8/-	5/6
" " 5 gr. ...	...	10/-	...
" " 10 gr. ...	...	18/-	...
Ammon. Chlor. with Borax ...	...	14/-	...
Antacid (Magnesio-Calcic) ...	4/6	12/-	...
Antifebrin, 2 gr. ...	7/6	18/-	...
Antim. Tartrate, 1-50 gr. ...	8/-	...	...
Antipyrin, 2 $\frac{1}{2}$ gr., sugar-coated ...	7/6	25/-	20/-
" 5 gr. ...	12/9	47/-	38/6
Apomorphia Mur. 1-50 gr. ...	7/6	...	...
Arsenious Acid, 1-100 gr. ...	6/-	...	...
" " 1 50 gr. ...	6/-	...	...
" " 1-20 gr. ...	6/-	...	...
Atropia Sulph., 1-100 gr. ...	7/6	...	...
Benzosol, 5 gr. ...	16/-	56/-	...
Bismuth Salicylate, 5 gr., 100 in bot. ...	...	42/-	...
Bismuth Subnit., 5 gr. ...	7/6	18/-	...
" " 10 gr. ...	...	30/-	...
Bismuth and Soda, 5 gr. (2 $\frac{1}{2}$ gr. each) ...	...	14/-	...
Blaud's Pill (Ferruginous), 4 gr. ...	6/-	10/-	7/6
Blaud's Pill with Aloin 1-20 gr. (sugar-coated) ...	6/-	10/-	...
Blaud's Pill with Arsenious Acid 1-64 gr. (sugar-coated) ...	6/-	10/-	...
Blue Pill, 3 gr. ...	6/-	12/-	...
Borax, 5 gr. ...	4/6	7/-	...
Caffeine Citrate, 2 gr. ...	...	18/-	...
Calcium Sulph., 1-10 gr., plain or sugar-coated ...	8/-	...	5/6
Calomel, 1-10 gr. ...	6/-	...	...
" 1-2 gr. ...	6/-	...	...
" 1 gr. ...	...	7/-	4/8
Cascara Sagrada Ext., 2 gr., plain or sugar-coated ...	7/6	18/-	13/6
Cascara Comp., plain or sugar-coated ...	8/6	18/-	13/6
Cathartic Comp., U.S.P., plain or sugar-coated ...	6/-	12/-	9/-
Cerebrinine ...	...	20/-	...
Charcoal, 5 gr. (Pure Willow) ...	7/6	12/-	7/6
Chloralamid, 5 gr. ...	...	22/-	...
Chloral Hydrate, 5 gr. ...	...	14/-	...
" " 10 gr. ...	...	20/-	...
Cocaine, 1 gr. ...	30/-	100/-	...
Copper Arsenite, 1-1000 gr. ...	...	7/6	...
Cretæ Arom. cum Opio Pulv., 5 gr. ...	7/-	14/-	10/6
Cubeb. Comp. ...	4/6	14/-	...
Cubeb and Belladonna, Effervescent... ..	...	18/-	...
Dermatol, 5 gr. ...	7/6	24/-	...
Dialysed Iron, 10 min. ...	8/6	14/-	...
Didymin ...	18/-	...	...
Digitalin, 1-100 gr. ...	7/6	...	...
Diuretin—"Knoll," 5 gr. ...	30/-	84/-	...
Easton's Syrup (=1 drachm), sugar-coated ...	10/-	24/-	...
Ergotin, 3 gr., sugar-coated ...	...	32/-	...
Euonymin Resin, 1-8 gr. ...	7/6	...	...
Exalgin, 2 gr. ...	...	30/-	...
Ferri Sulph. Exsic., 3-gr. ...	...	10/-	...
Gold Bromide, 1-100 gr.; 21 in tube... ..	8/-	...	...

Cable and Telegraphic Address—"BURCOME LONDON."

127 AWARDS (Gold, Silver, and Bronze Medals, Diplomas of Honour, and other Certificates)

"TABLOIDS"—continued.

	Per doz. Vinaigrette Ovals.	Per doz. Bots. of 100.	Per 1,000. In Bots. of 500.
Guaiaacum and Sulphur, <i>aa</i> 3 gr. ...	8/6	18/-	13/6
Hydrarg., Coloc., et Hyos. ...	8/-	21/-	...
Hydrarg. cum Cretâ, 1-3 gr. ...	6/-	...	...
" " 1-2 gr. ...	6/-	...	4/-
" " 1 gr. ...	7/-	...	4/8
" with Dover Powder, <i>aa</i> 1 gr. ...	...	12/-	...
Hydrarg. Iod. Rub., 1-16 gr. ...	8/-	...	...
Hydrarg. Iod. Vir., 1-8 gr. ...	8/-	...	...
Hydrarg. Perchlor., 1-100 gr. ...	8/-	...	...
Hydrastia Comp., plain or sugar-coated ...	14/-	38/-	...
Hydronaphthol, 3 gr. ...	...	20/-	...
Hypnal, 5 gr. ...	14/-	52/-	...
Ichthyol, 2½ gr., sugar or keratin coated ...	7/6	24/-	...
Iodic Hydrarg., 1-6 gr. ...	...	8/-	...
Iodopyrin, 5 gr. ...	18/-	64/-	...
Ipecac. and Opium, 5 gr. ...	6/-	15/-	11/-
(Dover Powder)			
" " 1-4 gr. ...	7/-	...	...
Ipecac. Co., with Hyd. cum Cretâ, <i>aa</i> 1 gr. ...	...	12/-	...
Ipecac. Powd., 1-10 gr. ...	7/-	...	...
" " 5 gr. ...	...	16/-	12/10
Ipecac. sine Emetinâ ...	...	30/-	...
Ipecac. Pulv. cum Antim. Tart., <i>aa</i> 1-100 gr. ...	...	8/-	...
Iron and Arsenic Comp. ...	...	18/-	...
Iron and Quinine Cit., 3 gr., plain or sugar-coated ...	8/6	18/-	13/6
Laxative Vegetable, plain or sugar coated ...	6/-	12/-	9/-
Lithia Carbonate, 2 gr. ...	...	15/-	...
Lithia Comp., (Mr. Hugh Lane's Formula), sugar-coated ...	...	26/-	...
Livingstone Rousers ...	...	24/-	...
Mag. Carb. Comp. (Ant-acid) ...	...	10/-	...
Magnesium Sulphite, 5 gr. ...	...	18/-	...
Manganese Dioxide, 2 gr. ...	6/-	12/-	...
Menthol Co. ...	...	12/-	...
Morphine Sulph., 1-20 gr. ...	6/-	...	...
" " 1-8 gr. ...	6/-	...	...
Nasal (Dr. Carl Seiler) ...	...	24/-	...
Nasal (Alkaline) ...	...	12/-	...
Nasal (Antiseptic and Alkaline) ...	...	12/-	...
Naso-Pharyngeal ...	10/-	30/-	...
Nitroglycerine, 1-100 gr. ...	7/-	...	...
(See also Trinitrine)			
Opium, 1-2 gr. ...	...	8/6	...
" 1 gr. ...	...	15/-	11/6
Papain 2 gr. (<i>Finkler</i>) ...	18/-	58/-	...
Pepsin (<i>Fairchild</i>), sugar-coated ...	8/6	24/-	...
Pepsin, Bismuth, and Charcoal ...	8/6	24/-	...
Pepsin, Saccharated (<i>Wyeth</i>), 5 gr. ...	...	16/-	...
Peptonic, 3 gr. ...	8/6	32/-	25/-
Peptonic, new improved (Gastro-enteric digestive) 3 gr. ...	8/6	32/-	25/-
Phenacetin (<i>Bayer</i>), 5 gr. ...	8/6	24/-	19/-
Pilocarpine Mur., 1-20 gr. ...	7/6	...	...
Podophyllin Resin, 1-4 gr. ...	8/6	...	...
Podophyllin Co. ...	...	18/-	...
Potass. Bicarb., 5 gr. ...	4/-	6/-	4/-
Potass. Bromide, 5 gr. ...	...	8/6	6/-
" " 10 gr. ...	...	14/-	10/6
Potass. Chlorate, 5 gr. ...	4/6	6/-	4/-
" " " in metal boxes			
" with blue silk label ...	4/-	...	...
" " 100 in each ...	6/-	...	...

"TABLOIDS"—continued.

	Per doz. Vinaigrette Ovals.	Per doz. Bots. of 100.	Per 1,000. In Bots. of 500.
Potass. Chlor. with Borax ...	4/6	6/-	4/-
" " " in metal boxes, with pink silk label ...	4/-	...	...
" " " 100 in each ...	6/-	...	...
Potass. Iodide, 5 gr. ...	...	24/-	17/6
Potass. Nit. (<i>Sal Prun.</i>), 5 gr. ...	...	6/-	...
Potass. Permangan., 1 gr. ...	...	6/-	4/-
" " 2 gr. ...	...	8/6	5/6
Potass. Salicylate, 5 gr. ...	...	32/-	...
Quinine Bisulphate, 1-2 gr. ...	6/-	8/-	...
" " 1 gr. ...	6/-	9/-	6/8
" " 2 gr. ...	6/-	12/-	9/-
" " 3 gr. ...	7/-	16/-	12/-
" " 5 gr. ...	8/6	24/-	19/-
(Quinine Bisulph., 1 gr., 2 gr., 3 gr., and 5 gr., may be had plain or sugar-coated at same prices.)			
Quinine Sulphate (prices and strength are the same as for Quinine Bisulph.)			
Reduced Iron, 2 gr. ...	...	12/-	...
Resorcin, 3 gr. ...	...	18/-	...
Rhubarb Comp. (Pill), 3 gr. ...	4/-	12/-	9/-
Rhubarb Comp. Pulv., 5 gr. ...	4/6	10/-	7/4
" " " (Improved) ...	4/6	10/-	...
Rhubarb and Gentian (Stomachic Comp.) ...	...	22/-	...
Rhubarb and Soda, 5 gr. ...	4/6	10/-	7/4
Rhubarb, 3 gr. ...	4/6	10/-	7/4
Saccharin, 1-2 gr., 100 in bottle ...	...	7/-	4/8
" " 200 " ...	...	12/6	...
Salicin, 5 gr. ...	8/6	20/-	...
Salol, 5 gr. ...	10/-	22/-	17/-
Santonin, 1-2 gr. ...	7/6	...	...
Soda - Mint (or Neutralising "Tabloids") ...	4/-	8/6	6/-
Sodium Bicarbonate, 5 gr. ...	4/-	6/-	4/-
Sodium Bromide, 5 gr. ...	...	12/-	...
" " 10 gr. ...	...	15/-	...
Sodium Dithio-salicylate, 4 gr. ...	...	42/-	...
Sodium Salicylate, 3 gr. (physiologically pure) ...	...	16/-	12/6
Sodium Salicylate, 5 gr. (physiologically pure) ...	...	24/-	18/6
Strontium Bromide, 5 gr. ...	...	16/-	...
Sulphonol, 5 gr. ...	8/6	24/-	18/6
Sulphur Comp. (Sir A. Garrod's) ...	4/6	10/-	7/4
Test "Tabloids" (for preparing Fehling's Sol.) ... per case	...	20/-	...
Tannin, 2½ gr. ...	...	12/-	...
Tar, 1 gr. ...	4/6	8/6	6/-
Tar, 1 gr., c. Codeine, 1-8 gr. ...	8/6	24/-	...
Thirst ...	7/6	14/-	...
Thyroid Gland, 5 gr. ...	...	24/-	...
Tonic Comp. ...	8/-	18/-	13/6
Trinitrine (Nitroglycerine), 1-100 gr. ...	6/-	12/-	...
" " 1-50 gr. ...	6/-	12/-	...
Trinitrine and Amyl Nitrite ...	8/6	24/-	...
Trinitrine Comp. ...	8/6	24/-	...
Urethane, 5 gr. ...	12/-	30/-	...
Vin. Ipecac, 5 minims ...	4/6	7/-	...
Voice (Potash, Borax, and Cocaine) ...	8/-	...	...
Voice (Potash, Borax, and Cocaine), metal boxes with blue silk label, 30 in each ...	7/6	...	...
Voice (Potash, Borax, and Cocaine), metal boxes with blue silk label, 80 in each ...	15/-	...	...

Cable and Telegraphic Address—"BURCOME LONDON."

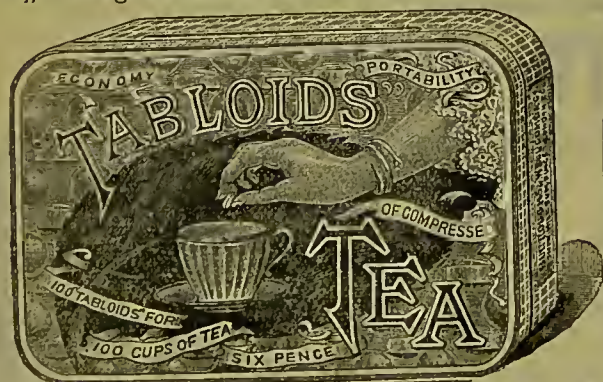
have been conferred upon B., W. & Co., at the Great Exhibitions of the World.

"TABLOIDS"—continued

	Per doz. Vini- grette Ovals.	Per doz. Bots. of 100.	Per 1,000. In Bots. of 500.
Zinc Permanganate, 1-8 gr. ...	8/-	...	...
Zinc Sulph. 1 gr. ...	8/-	...	...
" " 10 gr. ...	12/-	...	...
" Sulpho-Carbolate, 2 gr. ...	12/-	...	...
Zymine (Fairchild), keratin or sugar-coated ...	18/-	48/-	...
Zymine Comp. (Fairchild), keratin or sugar-coated ...	18/-	48/-	...

TINCTURE "TABLOIDS"—

Tincture Aconite, 1 minim ...	6/-	...
" " 5 minims ...	4/6	8/6
" Belladonna, 1 minim ...	7/-	...
" " 5 minims ...	4/6	7/-
" " 15 " ...	4/6	8/6
" Camph. Co., 2 " ...	8/-	...
" " 5 " ...	4/6	8/-
" " 15 " ...	4/6	10/-
" Cannabis Indica, 5 minims ...	4/6	8/6
" Capsicum, 1 minim ...	8/6	...
" Cinchon. Co., 30 minims ...	8/6	16/-
" " Simp., 30 minims ...	7/6	14/-
" Digitalis, 1 minim ...	8/6	...
" " 5 minims ...	4/6	8/6
" Gelsem. Semp., 5 minims ...	4/6	7/6
" Hyoscyamus, 1 minim ...	8/6	...
" " 10 minims ...	4/6	10/-
" Nux Vomica, 1 minim ...	7/6	...
" " 3 minims ...	4/6	7/6
" " 10 " ...	4/6	8/6
" Opium, 2 minims ...	4/6	7/6
" " 5 " ...	4/6	8/6
" " 10 " ...	4/6	12/-
" Strophanthus, 2 minims ...	7/6	14/-
" Warburg, 30 minims ...	24/-	...
" Zingib. Fort., 5 minims ...	4/6	8/6



TEA "TABLOIDS"—

12. Packages (specimen), less than 12 doz. ...	10/-
" " " " 1 gross and upwards ...	9/-
" Packages of 100, less than 3 doz. ...	5/-
" " " " in quantities of 3 doz. ...	4/9
" " " " " " 6 " ...	4/6
" " " " " " 1 gross ...	4/3

Per doz.
Net.

Packages of 200, less than 3 doz. ...	10/-
" " " in quantities of 3 doz. ...	9/6
" " " " " " 6 " ...	9/-
" " " " " " 1 gross ...	8/6

TEREBENE, PURE (B., W. & CO.)—

1 oz. bots., 8/6; 2 oz. bots., 12/-; 8 oz. bots., 24/-
16 oz. bots., 45/-

THROAT LAMP (DR. CARDEW'S)

TUBERCULIN—

In bots. of 1 c.c. ...	6/-
" " 5 c.c. ...	25/-

TUBERCULOCIDIN—

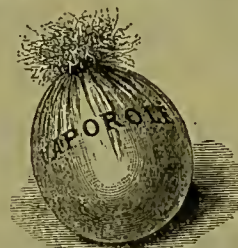
In bots. of 2 c.c. ...	10/-
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URINARY TEST CASE (B., W. & CO.)—

Containing "Tabloids" for preparing Fehling's Test Solution, Urinometer, 6 Test-tubes, Graduated Glass, 3 Stoppered Bottles for Acid, Spirit-lamp, Test-papers, &c. ... 40/-

"VAPOROLES"—

Put up in boxes, each containing 12 "Vaporoles" (one variety only) ... 24/-



FOR INHALATION.

1. "Vaporole" Carbolic Acid, 20 minims.
2. " Ether, 30 minims.
3. " Amyl Nitrite, 5 minims.
4. " Tinct. Benzoin. Co., 30 minims.
5. " Chloroform, 30 minims.
6. " Creosote, 10 minims.
7. " Cubebs and Lemon, 5 minims.
8. " Iodine Tinct., 10 minims.
9. " Juniper, 2½ minims.
10. " Terebene, 10 minims.
11. " Pinol, 10 minims.
12. " Eucalyptia, 10 minims.
13. " Amyl Nitrite, 3 minims.
14. " Ol. Pini Sylvestris, 5 minims.
15. " Ol. Calam. Aromat., 1 minim.

FOR AURAL USE.

16. "Vaporole" Iodoform Solution in Pinol, 1 in 7, 7 minims.
17. " Iodoform Solution in Eucalyptia, 1 in 7, 7 minims.

The odour of the Iodoform is completely disguised.

18. "Vaporole" Iodine Tincture, 5 minims.

HIGHEST AWARDS at the World's Fair, Chicago,

FOR

"TABLOIDS" OF COMPRESSED DRUGS, MEDICINE CHESTS,
HYPODERMIC SYRINGES, INHALERS,
ANTISEPTIC ARTIFICIAL EAR DRUMS, and Highest Awards wherever exhibited.

BURROUGHS, WELLCOME & CO., Manufacturing Chemists, LONDON & DARTFORD.

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A CHEAP AND PROFITABLE LINE TO STOCK.

"VASELINE" (Blue Seal,)
(without Cardboard Case)No. 1 size (6d. Bottle) in Boxes of $\frac{1}{4}$ Gross, 24/- net per gross.

No. 2 „ (1s. „) „ „ 1 Dozen, 48/- „ „

1-lb. Tins (Hermetically Sealed), 12/- per doz.; Veterinary, 10/- per doz.

CHESEBROUGH MANUFACTURING CO., 42 HOLBORN VIADUCT, LONDON, E.C.
*Sole Proprietors and Makers of "VASELINE."***TO MERCHANT SHIPPERS AND BUYERS FROM ABROAD.**

We have much pleasure in calling your attention to the Price List we publish on pages 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97. Some important alterations in prices and additions will be found to have been made since our last list appeared in these pages.

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

Cable and Telegraphic Address—"BURCOME LONDON."

TO CHEMISTS AND ALL VENDORS OF PROPRIETARY MEDICINES.**NOTICE RELATIVE TO CONGREVE'S****BALSAMIC ELIXIR****THE WORLD'S PROVED REMEDY FOR****COUGHS, COLDS, HOARSENESS, ASTHMA, CHRONIC BRONCHITIS,
INFLUENZA, AND OTHER CHEST AFFECTIONS.**

In Bottles 1s. 1½d., 2s. 9d., 4s. 6d., 11s., and 22s.

This Medicine is Not Affected by the Pharmacy Act, and ALL PERSONS HOLDING A PATENT MEDICINE LICENCE MAY SELL IT. It MUST NOT be Labelled "POISON."

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G. T. CONGREVE, COOMBE LODGE, PECKHAM, LONDON, S.E.